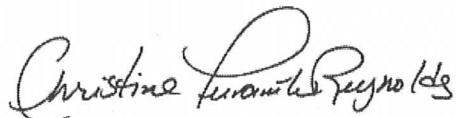


**ANALYTICAL REPORT****CHECKED FOR COMPLETENESS  
OF PARAMETERS ORDERED BY:**

Job Number: 480-29484-1

Job Description: Olin Chemical Wilmington MA Superfund S

For:  
Olin Corporation  
PO BOX 248  
Charleston, TN 37310-0248  
Attention: Mr. James Cashwell



Approved for release.  
Chris F Reynolds  
QA Manager  
12/28/2012 10:54 AM

Designee for  
Becky C Mason  
Project Manager II  
[becky.mason@testamericainc.com](mailto:becky.mason@testamericainc.com)  
12/28/2012

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

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## CASE NARRATIVE

**Client: Olin Corporation**

**Project: Olin Chemical Wilmington MA Superfund S**

**Report Number: 480-29484-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### **RECEIPT**

The samples were received on 12/05/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 17.0 C.

Note: All samples that require thermal preservation are considered acceptable if the arrival temperature is within the method's specified temperature range or for general analysis, ranging from 6°C to just above the freezing temperature of water. Samples that are hand delivered, immediately following collection, may not meet these criteria; however, they will be considered acceptable according to NELAC and State standards, if there is evidence that the chilling process has begun, such as stored and transported to the laboratory on ice.

### **REDUCTION-OXIDATION (REDOX) POTENTIAL**

Samples OC-SS-510-0.0/1.0-XXX (480-29484-1), OC-SS-512-0.0/1.0-XXX (480-29484-2), OC-SS-520-0.0/1.0-XXX (480-29484-3), OC-SS-519-0.0/1.0-XXX (480-29484-4), OC-SS-518-0.0/1.0-XXX (480-29484-5), OC-SS-522-0.0/1.0-XXX (480-29484-6), OC-SS-523-0.0/1.0-XXX (480-29484-7), OC-SS-511-0.0/1.0-XXX (480-29484-8), OC-SS-513-0.0/1.0-XXX (480-29484-9), OC-SS-517-0.0/1.0-XXX (480-29484-10), OC-SS-514-0.0/1.0-XXX (480-29484-11), OC-SS-515-0.0/1.0-XXX (480-29484-12), OC-SS-516-0.0/1.0-XXX (480-29484-13), OC-SS-521-0.0/1.0-XXX (480-29484-14) and OC-DUP-1 (480-29484-15) were analyzed for Reduction-Oxidation (REDOX) Potential in accordance with SM20 2580B Oxidation Reduction Potential. The samples were leached on 12/05/2012 and analyzed on 12/05/2012.

No difficulties were encountered during the redox analyses.

All quality control parameters were within the acceptance limits.

### **HEXAVALENT CHROMIUM**

Samples OC-SS-510-0.0/1.0-XXX (480-29484-1), OC-SS-512-0.0/1.0-XXX (480-29484-2), OC-SS-520-0.0/1.0-XXX (480-29484-3), OC-SS-519-0.0/1.0-XXX (480-29484-4), OC-SS-518-0.0/1.0-XXX (480-29484-5), OC-SS-522-0.0/1.0-XXX (480-29484-6), OC-SS-523-0.0/1.0-XXX (480-29484-7), OC-SS-511-0.0/1.0-XXX (480-29484-8), OC-SS-513-0.0/1.0-XXX (480-29484-9), OC-SS-517-0.0/1.0-XXX (480-29484-10), OC-SS-514-0.0/1.0-XXX (480-29484-11), OC-SS-515-0.0/1.0-XXX (480-29484-12), OC-SS-516-0.0/1.0-XXX (480-29484-13), OC-SS-521-0.0/1.0-XXX (480-29484-14) and OC-DUP-1 (480-29484-15) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7199. The samples were prepared on 12/06/2012 and 12/14/2012 and analyzed on 12/12/2012, 12/17/2012 and 12/18/2012.

Chromium (hexavalent) failed the recovery criteria low for the MS of sample OC-SS-521-0.0/1.0-XXXMS (480-29484-14) in batch 460-139567.

The matrix spike soluble/matrix spike insoluble (MSS/MSI) recoveries for batch 140322, which is a re-prep of batch 139567, were outside control limits due to sample matrix. The associated laboratory control sample (LCSS/LCSI) recoveries met acceptance criteria. Both sets of data have been reported.

Refer to the QC report for details.

No other difficulties were encountered during the hexavalent chromium analyses.

All other quality control parameters were within the acceptance limits.

### **PH**

Samples OC-SS-510-0.0/1.0-XXX (480-29484-1), OC-SS-512-0.0/1.0-XXX (480-29484-2), OC-SS-520-0.0/1.0-XXX (480-29484-3), OC-SS-519-0.0/1.0-XXX (480-29484-4), OC-SS-518-0.0/1.0-XXX (480-29484-5), OC-SS-522-0.0/1.0-XXX (480-29484-6), OC-SS-523-0.0/1.0-XXX (480-29484-7), OC-SS-511-0.0/1.0-XXX (480-29484-8), OC-SS-513-0.0/1.0-XXX (480-29484-9), OC-SS-517-0.0/1.0-XXX (480-29484-10), OC-SS-514-0.0/1.0-XXX (480-29484-11), OC-SS-515-0.0/1.0-XXX (480-29484-12),

OC-SS-516-0.0/1.0-XXX (480-29484-13), OC-SS-521-0.0/1.0-XXX (480-29484-14) and OC-DUP-1 (480-29484-15) were analyzed for pH in accordance with EPA SW-846 Method 9045C. The samples were leached on 12/05/2012 and analyzed on 12/05/2012.

No difficulties were encountered during the pH analyses.

All quality control parameters were within the acceptance limits.

**PERCENT SOLIDS**

Samples OC-SS-510-0.0/1.0-XXX (480-29484-1), OC-SS-512-0.0/1.0-XXX (480-29484-2), OC-SS-520-0.0/1.0-XXX (480-29484-3), OC-SS-519-0.0/1.0-XXX (480-29484-4), OC-SS-518-0.0/1.0-XXX (480-29484-5), OC-SS-522-0.0/1.0-XXX (480-29484-6), OC-SS-523-0.0/1.0-XXX (480-29484-7), OC-SS-511-0.0/1.0-XXX (480-29484-8), OC-SS-513-0.0/1.0-XXX (480-29484-9), OC-SS-517-0.0/1.0-XXX (480-29484-10), OC-SS-514-0.0/1.0-XXX (480-29484-11), OC-SS-515-0.0/1.0-XXX (480-29484-12), OC-SS-516-0.0/1.0-XXX (480-29484-13), OC-SS-521-0.0/1.0-XXX (480-29484-14) and OC-DUP-1 (480-29484-15) were analyzed for percent solids in accordance with EPA Moisture. The samples were analyzed on 12/09/2012.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

## SAMPLE SUMMARY

Client: Olin Corporation

Job Number: 480-29484-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-29484-1	OC-SS-510-0.0/1.0-XXX	Solid	12/04/2012 0820	12/05/2012 1900
480-29484-2	OC-SS-512-0.0/1.0-XXX	Solid	12/04/2012 0845	12/05/2012 1900
480-29484-3	OC-SS-520-0.0/1.0-XXX	Solid	12/04/2012 0905	12/05/2012 1900
480-29484-4	OC-SS-519-0.0/1.0-XXX	Solid	12/04/2012 0925	12/05/2012 1900
480-29484-5	OC-SS-518-0.0/1.0-XXX	Solid	12/04/2012 0945	12/05/2012 1900
480-29484-6	OC-SS-522-0.0/1.0-XXX	Solid	12/04/2012 1020	12/05/2012 1900
480-29484-7	OC-SS-523-0.0/1.0-XXX	Solid	12/04/2012 1035	12/05/2012 1900
480-29484-8	OC-SS-511-0.0/1.0-XXX	Solid	12/04/2012 1115	12/05/2012 1900
480-29484-9	OC-SS-513-0.0/1.0-XXX	Solid	12/04/2012 1135	12/05/2012 1900
480-29484-10	OC-SS-517-0.0/1.0-XXX	Solid	12/04/2012 1145	12/05/2012 1900
480-29484-11	OC-SS-514-0.0/1.0-XXX	Solid	12/04/2012 1255	12/05/2012 1900
480-29484-12	OC-SS-515-0.0/1.0-XXX	Solid	12/04/2012 1310	12/05/2012 1900
480-29484-13	OC-SS-516-0.0/1.0-XXX	Solid	12/04/2012 1330	12/05/2012 1900
480-29484-14	OC-SS-521-0.0/1.0-XXX	Solid	12/04/2012 1415	12/05/2012 1900
480-29484-15	OC-DUP-1	Solid	12/04/2012 0000	12/05/2012 1900

## EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 480-29484-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>480-29484-1</b>	<b>OC-SS-510-0.0/1.0-XXX</b>					
Percent Moisture		24		1.0	%	Moisture
Percent Solids		76		1.0	%	Moisture
<i>Soluble</i>						
pH-Soluble		4.24		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		120		0.010	millivolts	SM 2580B
<b>480-29484-2</b>	<b>OC-SS-512-0.0/1.0-XXX</b>					
Percent Moisture		30		1.0	%	Moisture
Percent Solids		70		1.0	%	Moisture
<i>Soluble</i>						
pH-Soluble		4.21		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		100		0.010	millivolts	SM 2580B
<b>480-29484-3</b>	<b>OC-SS-520-0.0/1.0-XXX</b>					
Percent Moisture		59		1.0	%	Moisture
Percent Solids		41		1.0	%	Moisture
<i>Soluble</i>						
pH-Soluble		3.99		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		98		0.010	millivolts	SM 2580B
<b>480-29484-4</b>	<b>OC-SS-519-0.0/1.0-XXX</b>					
Percent Moisture		52		1.0	%	Moisture
Percent Solids		48		1.0	%	Moisture
<i>Soluble</i>						
pH-Soluble		3.58		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		97		0.010	millivolts	SM 2580B
<b>480-29484-5</b>	<b>OC-SS-518-0.0/1.0-XXX</b>					
Percent Moisture		50		1.0	%	Moisture
Percent Solids		50		1.0	%	Moisture
<i>Soluble</i>						
pH-Soluble		3.64		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		68		0.010	millivolts	SM 2580B

## EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 480-29484-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>480-29484-6</b>	<b>OC-SS-522-0.0/1.0-XXX</b>					
Percent Moisture		36		1.0	%	Moisture
Percent Solids		64		1.0	%	Moisture
<i>Soluble</i>						
pH-Soluble		3.90		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		67		0.010	millivolts	SM 2580B
<b>480-29484-7</b>	<b>OC-SS-523-0.0/1.0-XXX</b>					
Percent Moisture		42		1.0	%	Moisture
Percent Solids		58		1.0	%	Moisture
<i>Soluble</i>						
pH-Soluble		3.71		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		82		0.010	millivolts	SM 2580B
<b>480-29484-8</b>	<b>OC-SS-511-0.0/1.0-XXX</b>					
Percent Moisture		46		1.0	%	Moisture
Percent Solids		54		1.0	%	Moisture
<i>Soluble</i>						
pH-Soluble		6.49		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		25		0.010	millivolts	SM 2580B
<b>480-29484-9</b>	<b>OC-SS-513-0.0/1.0-XXX</b>					
Percent Moisture		42		1.0	%	Moisture
Percent Solids		58		1.0	%	Moisture
<i>Soluble</i>						
pH-Soluble		6.28		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		20		0.010	millivolts	SM 2580B
<b>480-29484-10</b>	<b>OC-SS-517-0.0/1.0-XXX</b>					
Percent Moisture		18		1.0	%	Moisture
Percent Solids		82		1.0	%	Moisture
<i>Soluble</i>						
pH-Soluble		3.82		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		64		0.010	millivolts	SM 2580B

## EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 480-29484-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>480-29484-11</b>	<b>OC-SS-514-0.0/1.0-XXX</b>					
Percent Moisture		8.7		1.0	%	Moisture
Percent Solids		91		1.0	%	Moisture
<i>Soluble</i>						
pH-Soluble		4.59		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		61		0.010	millivolts	SM 2580B
<b>480-29484-12</b>	<b>OC-SS-515-0.0/1.0-XXX</b>					
Percent Moisture		18		1.0	%	Moisture
Percent Solids		82		1.0	%	Moisture
<i>Soluble</i>						
pH-Soluble		4.55		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		57		0.010	millivolts	SM 2580B
<b>480-29484-13</b>	<b>OC-SS-516-0.0/1.0-XXX</b>					
Percent Moisture		17		1.0	%	Moisture
Percent Solids		83		1.0	%	Moisture
<i>Soluble</i>						
pH-Soluble		3.59		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		68		0.010	millivolts	SM 2580B
<b>480-29484-14</b>	<b>OC-SS-521-0.0/1.0-XXX</b>					
Percent Moisture		59		1.0	%	Moisture
Percent Solids		41		1.0	%	Moisture
<i>Soluble</i>						
pH-Soluble		3.87		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		67		0.010	millivolts	SM 2580B
<b>480-29484-15</b>	<b>OC-DUP-1</b>					
Percent Moisture		42		1.0	%	Moisture
Percent Solids		58		1.0	%	Moisture
<i>Soluble</i>						
pH-Soluble		3.69		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		62		0.010	millivolts	SM 2580B

## METHOD SUMMARY

Client: Olin Corporation

Job Number: 480-29484-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
Chromium, Hexavalent (IC)	TAL EDI	SW846 7199	
Alkaline Digestion (Chromium, Hexavalent)	TAL EDI		SW846 3060A
Percent Moisture	TAL EDI	EPA Moisture	
pH	TAL WFD	SW846 9045C	
Deionized Water Leaching Procedure	TAL WFD		ASTM DI Leach
Reduction-Oxidation (REDOX) Potential	TAL WFD	SM SM 2580B	
Deionized Water Leaching Procedure	TAL WFD		ASTM DI Leach

### Lab References:

TAL EDI = TestAmerica Edison

TAL WFD = TestAmerica Westfield

### Method References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## METHOD / ANALYST SUMMARY

Client: Olin Corporation

Job Number: 480-29484-1

Method	Analyst	Analyst ID
SW846 7199	Brown, Sarah E	SEB
SW846 9045C	Emerich, Rich W	RWE
EPA Moisture	Robinson, Ian	IR
SM SM 2580B	Benoit, Gary R	GRB

**Analytical Data**

Client: Olin Corporation

Job Number: 480-29484-1

**General Chemistry****Client Sample ID:** OC-SS-510-0.0/1.0-XXX

Lab Sample ID: 480-29484-1

Date Sampled: 12/04/2012 0820

Client Matrix: Solid

% Moisture: 24.5

Date Received: 12/05/2012 1900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	1.9	2.6	10	7199
	Analysis Batch: 460-139567		Analysis Date: 12/12/2012 1553				DryWt Corrected: Y
	Prep Batch: 460-138391		Prep Date: 12/06/2012 1230				
Chromium (hexavalent)	ND		mg/Kg	2.0	2.7	10	7199
	Analysis Batch: 460-140322		Analysis Date: 12/17/2012 2036				DryWt Corrected: Y
	Prep Batch: 460-140206		Prep Date: 12/14/2012 1438				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	4.24		SU	1.00	1.00	1.0	9045C
	Analysis Batch: 360-97355		Analysis Date: 12/05/2012 0934				DryWt Corrected: N
Percent Moisture	24		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Percent Solids	76		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Oxidation Reduction Potential-Soluble	120		millivolts	0.010	0.010	1.0	SM 2580B
	Analysis Batch: 360-97359		Analysis Date: 12/05/2012 0934				DryWt Corrected: N

**Analytical Data**

Client: Olin Corporation

Job Number: 480-29484-1

**General Chemistry****Client Sample ID:** OC-SS-512-0.0/1.0-XXX

Lab Sample ID: 480-29484-2

Date Sampled: 12/04/2012 0845

Client Matrix: Solid

% Moisture: 30.4

Date Received: 12/05/2012 1900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	2.1	2.9	10	7199
	Analysis Batch: 460-139567		Analysis Date: 12/12/2012 1601				DryWt Corrected: Y
	Prep Batch: 460-138391		Prep Date: 12/06/2012 1230				
Chromium (hexavalent)	ND		mg/Kg	2.1	2.9	10	7199
	Analysis Batch: 460-140322		Analysis Date: 12/17/2012 2052				DryWt Corrected: Y
	Prep Batch: 460-140206		Prep Date: 12/14/2012 1438				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	4.21		SU	1.00	1.00	1.0	9045C
	Analysis Batch: 360-97355		Analysis Date: 12/05/2012 0945				DryWt Corrected: N
Percent Moisture	30		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Percent Solids	70		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Oxidation Reduction Potential-Soluble	100		millivolts	0.010	0.010	1.0	SM 2580B
	Analysis Batch: 360-97359		Analysis Date: 12/05/2012 0945				DryWt Corrected: N

**Analytical Data**

Client: Olin Corporation

Job Number: 480-29484-1

**General Chemistry****Client Sample ID:** OC-SS-520-0.0/1.0-XXX

Lab Sample ID: 480-29484-3

Date Sampled: 12/04/2012 0905

Client Matrix: Solid

% Moisture: 58.7

Date Received: 12/05/2012 1900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	3.4	4.7	10	7199
	Analysis Batch: 460-139567		Analysis Date: 12/12/2012 1635				DryWt Corrected: Y
	Prep Batch: 460-138391		Prep Date: 12/06/2012 1230				
Chromium (hexavalent)	ND		mg/Kg	3.4	4.7	10	7199
	Analysis Batch: 460-140322		Analysis Date: 12/17/2012 2117				DryWt Corrected: Y
	Prep Batch: 460-140206		Prep Date: 12/14/2012 1438				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	3.99		SU	1.00	1.00	1.0	9045C
	Analysis Batch: 360-97355		Analysis Date: 12/05/2012 0957				DryWt Corrected: N
Percent Moisture	59		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Percent Solids	41		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Oxidation Reduction Potential-Soluble	98		millivolts	0.010	0.010	1.0	SM 2580B
	Analysis Batch: 360-97359		Analysis Date: 12/05/2012 0957				DryWt Corrected: N

**Analytical Data**

Client: Olin Corporation

Job Number: 480-29484-1

**General Chemistry****Client Sample ID:** OC-SS-519-0.0/1.0-XXX

Lab Sample ID: 480-29484-4

Date Sampled: 12/04/2012 0925

Client Matrix: Solid

% Moisture: 51.7

Date Received: 12/05/2012 1900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	2.9	4.0	10	7199
	Analysis Batch: 460-139567		Analysis Date: 12/12/2012 1700				DryWt Corrected: Y
	Prep Batch: 460-138391		Prep Date: 12/06/2012 1230				
Chromium (hexavalent)	ND		mg/Kg	3.0	4.1	10	7199
	Analysis Batch: 460-140322		Analysis Date: 12/17/2012 2142				DryWt Corrected: Y
	Prep Batch: 460-140206		Prep Date: 12/14/2012 1438				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	3.58		SU	1.00	1.00	1.0	9045C
	Analysis Batch: 360-97355		Analysis Date: 12/05/2012 1002				DryWt Corrected: N
Percent Moisture	52		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Percent Solids	48		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Oxidation Reduction Potential-Soluble	97		millivolts	0.010	0.010	1.0	SM 2580B
	Analysis Batch: 360-97359		Analysis Date: 12/05/2012 1002				DryWt Corrected: N

**Analytical Data**

Client: Olin Corporation

Job Number: 480-29484-1

**General Chemistry****Client Sample ID:** OC-SS-518-0.0/1.0-XXX

Lab Sample ID: 480-29484-5

Date Sampled: 12/04/2012 0945

Client Matrix: Solid

% Moisture: 50.3

Date Received: 12/05/2012 1900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	2.9	3.9	10	7199
	Analysis Batch: 460-139567		Analysis Date: 12/12/2012 1708				DryWt Corrected: Y
	Prep Batch: 460-138391		Prep Date: 12/06/2012 1230				
Chromium (hexavalent)	ND		mg/Kg	2.9	3.9	10	7199
	Analysis Batch: 460-140322		Analysis Date: 12/17/2012 2150				DryWt Corrected: Y
	Prep Batch: 460-140206		Prep Date: 12/14/2012 1438				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	3.64		SU	1.00	1.00	1.0	9045C
	Analysis Batch: 360-97355		Analysis Date: 12/05/2012 1010				DryWt Corrected: N
Percent Moisture	50		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Percent Solids	50		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Oxidation Reduction Potential-Soluble	68		millivolts	0.010	0.010	1.0	SM 2580B
	Analysis Batch: 360-97359		Analysis Date: 12/05/2012 1010				DryWt Corrected: N

**Analytical Data**

Client: Olin Corporation

Job Number: 480-29484-1

**General Chemistry****Client Sample ID:** OC-SS-522-0.0/1.0-XXX

Lab Sample ID: 480-29484-6

Date Sampled: 12/04/2012 1020

Client Matrix: Solid

% Moisture: 36.0

Date Received: 12/05/2012 1900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	2.3	3.2	10	7199
	Analysis Batch: 460-139567		Analysis Date: 12/12/2012 1731				DryWt Corrected: Y
	Prep Batch: 460-138391		Prep Date: 12/06/2012 1230				
Chromium (hexavalent)	ND		mg/Kg	2.3	3.1	10	7199
	Analysis Batch: 460-140322		Analysis Date: 12/17/2012 2215				DryWt Corrected: Y
	Prep Batch: 460-140206		Prep Date: 12/14/2012 1438				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	3.90		SU	1.00	1.00	1.0	9045C
	Analysis Batch: 360-97355		Analysis Date: 12/05/2012 1019				DryWt Corrected: N
Percent Moisture	36		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Percent Solids	64		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Oxidation Reduction Potential-Soluble	67		millivolts	0.010	0.010	1.0	SM 2580B
	Analysis Batch: 360-97359		Analysis Date: 12/05/2012 1019				DryWt Corrected: N

**Analytical Data**

Client: Olin Corporation

Job Number: 480-29484-1

**General Chemistry****Client Sample ID:** OC-SS-523-0.0/1.0-XXX

Lab Sample ID: 480-29484-7

Date Sampled: 12/04/2012 1035

Client Matrix: Solid

% Moisture: 42.3

Date Received: 12/05/2012 1900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	2.6	3.5	10	7199
	Analysis Batch: 460-139567		Analysis Date: 12/12/2012 1756				DryWt Corrected: Y
	Prep Batch: 460-138391		Prep Date: 12/06/2012 1230				
Chromium (hexavalent)	ND		mg/Kg	2.6	3.5	10	7199
	Analysis Batch: 460-140322		Analysis Date: 12/17/2012 2231				DryWt Corrected: Y
	Prep Batch: 460-140206		Prep Date: 12/14/2012 1438				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	3.71		SU	1.00	1.00	1.0	9045C
	Analysis Batch: 360-97355		Analysis Date: 12/05/2012 1025				DryWt Corrected: N
Percent Moisture	42		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Percent Solids	58		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Oxidation Reduction Potential-Soluble	82		millivolts	0.010	0.010	1.0	SM 2580B
	Analysis Batch: 360-97359		Analysis Date: 12/05/2012 1025				DryWt Corrected: N

**Analytical Data**

Client: Olin Corporation

Job Number: 480-29484-1

**General Chemistry****Client Sample ID:** OC-SS-511-0.0/1.0-XXX

Lab Sample ID: 480-29484-8

Date Sampled: 12/04/2012 1115

Client Matrix: Solid

% Moisture: 45.6

Date Received: 12/05/2012 1900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	2.7	3.8	10	7199
	Analysis Batch: 460-139567		Analysis Date: 12/12/2012 1821				DryWt Corrected: Y
	Prep Batch: 460-138391		Prep Date: 12/06/2012 1230				
Chromium (hexavalent)	ND		mg/Kg	2.7	3.7	10	7199
	Analysis Batch: 460-140322		Analysis Date: 12/17/2012 2256				DryWt Corrected: Y
	Prep Batch: 460-140206		Prep Date: 12/14/2012 1438				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	6.49		SU	1.00	1.00	1.0	9045C
	Analysis Batch: 360-97355		Analysis Date: 12/05/2012 1031				DryWt Corrected: N
Percent Moisture	46		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Percent Solids	54		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Oxidation Reduction Potential-Soluble	25		millivolts	0.010	0.010	1.0	SM 2580B
	Analysis Batch: 360-97359		Analysis Date: 12/05/2012 1031				DryWt Corrected: N

**Analytical Data**

Client: Olin Corporation

Job Number: 480-29484-1

**General Chemistry****Client Sample ID:** OC-SS-513-0.0/1.0-XXX

Lab Sample ID: 480-29484-9

Date Sampled: 12/04/2012 1135

Client Matrix: Solid

% Moisture: 42.2

Date Received: 12/05/2012 1900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	2.5	3.5	10	7199
	Analysis Batch: 460-139567		Analysis Date: 12/12/2012 1837				DryWt Corrected: Y
	Prep Batch: 460-138391		Prep Date: 12/06/2012 1230				
Chromium (hexavalent)	ND		mg/Kg	2.5	3.5	10	7199
	Analysis Batch: 460-140322		Analysis Date: 12/17/2012 2312				DryWt Corrected: Y
	Prep Batch: 460-140206		Prep Date: 12/14/2012 1438				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	6.28		SU	1.00	1.00	1.0	9045C
	Analysis Batch: 360-97355		Analysis Date: 12/05/2012 1038				DryWt Corrected: N
Percent Moisture	42		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Percent Solids	58		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Oxidation Reduction Potential-Soluble	20		millivolts	0.010	0.010	1.0	SM 2580B
	Analysis Batch: 360-97359		Analysis Date: 12/05/2012 1038				DryWt Corrected: N

**Analytical Data**

Client: Olin Corporation

Job Number: 480-29484-1

**General Chemistry****Client Sample ID:** OC-SS-517-0.0/1.0-XXX**Lab Sample ID:** 480-29484-10      **Date Sampled:** 12/04/2012 1145  
**Client Matrix:** Solid      **% Moisture:** 18.2      **Date Received:** 12/05/2012 1900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	1.7	2.4	10	7199
	Analysis Batch: 460-139567		Analysis Date: 12/12/2012 1902				DryWt Corrected: Y
	Prep Batch: 460-138391		Prep Date: 12/06/2012 1230				
Chromium (hexavalent)	ND		mg/Kg	1.8	2.4	10	7199
	Analysis Batch: 460-140322		Analysis Date: 12/17/2012 2328				DryWt Corrected: Y
	Prep Batch: 460-140206		Prep Date: 12/14/2012 1438				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	3.82		SU	1.00	1.00	1.0	9045C
	Analysis Batch: 360-97355		Analysis Date: 12/05/2012 1046				DryWt Corrected: N
Percent Moisture	18		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Percent Solids	82		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Oxidation Reduction Potential-Soluble	64		millivolts	0.010	0.010	1.0	SM 2580B
	Analysis Batch: 360-97359		Analysis Date: 12/05/2012 1046				DryWt Corrected: N

**Analytical Data**

Client: Olin Corporation

Job Number: 480-29484-1

**General Chemistry****Client Sample ID:** OC-SS-514-0.0/1.0-XXX**Lab Sample ID:** 480-29484-11      **Date Sampled:** 12/04/2012 1255  
**Client Matrix:** Solid      **% Moisture:** 8.7      **Date Received:** 12/05/2012 1900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	1.6	2.2	10	7199
	Analysis Batch: 460-139567		Analysis Date: 12/12/2012 1918				DryWt Corrected: Y
	Prep Batch: 460-138391		Prep Date: 12/06/2012 1230				
Chromium (hexavalent)	ND		mg/Kg	1.6	2.2	10	7199
	Analysis Batch: 460-140322		Analysis Date: 12/17/2012 2345				DryWt Corrected: Y
	Prep Batch: 460-140206		Prep Date: 12/14/2012 1438				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	4.59		SU	1.00	1.00	1.0	9045C
	Analysis Batch: 360-97355		Analysis Date: 12/05/2012 1052				DryWt Corrected: N
Percent Moisture	8.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Percent Solids	91		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Oxidation Reduction Potential-Soluble	61		millivolts	0.010	0.010	1.0	SM 2580B
	Analysis Batch: 360-97359		Analysis Date: 12/05/2012 1052				DryWt Corrected: N

**Analytical Data**

Client: Olin Corporation

Job Number: 480-29484-1

**General Chemistry****Client Sample ID:** OC-SS-515-0.0/1.0-XXX**Lab Sample ID:** 480-29484-12      **Date Sampled:** 12/04/2012 1310  
**Client Matrix:** Solid      **% Moisture:** 18.5      **Date Received:** 12/05/2012 1900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	1.8	2.5	10	7199
	Analysis Batch: 460-139567		Analysis Date: 12/12/2012 1926				DryWt Corrected: Y
	Prep Batch: 460-138391		Prep Date: 12/06/2012 1230				
Chromium (hexavalent)	ND		mg/Kg	1.8	2.5	10	7199
	Analysis Batch: 460-140322		Analysis Date: 12/18/2012 0001				DryWt Corrected: Y
	Prep Batch: 460-140206		Prep Date: 12/14/2012 1438				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	4.55		SU	1.00	1.00	1.0	9045C
	Analysis Batch: 360-97355		Analysis Date: 12/05/2012 1056				DryWt Corrected: N
Percent Moisture	18		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Percent Solids	82		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Oxidation Reduction Potential-Soluble	57		millivolts	0.010	0.010	1.0	SM 2580B
	Analysis Batch: 360-97359		Analysis Date: 12/05/2012 1056				DryWt Corrected: N

**Analytical Data**

Client: Olin Corporation

Job Number: 480-29484-1

**General Chemistry****Client Sample ID:** OC-SS-516-0.0/1.0-XXX**Lab Sample ID:** 480-29484-13      **Date Sampled:** 12/04/2012 1330  
**Client Matrix:** Solid      **% Moisture:** 17.2      **Date Received:** 12/05/2012 1900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	1.7	2.4	10	7199
	Analysis Batch: 460-139567		Analysis Date: 12/12/2012 1959				DryWt Corrected: Y
	Prep Batch: 460-138391		Prep Date: 12/06/2012 1230				
Chromium (hexavalent)	ND		mg/Kg	1.7	2.4	10	7199
	Analysis Batch: 460-140322		Analysis Date: 12/18/2012 0034				DryWt Corrected: Y
	Prep Batch: 460-140206		Prep Date: 12/14/2012 1438				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	3.59		SU	1.00	1.00	1.0	9045C
	Analysis Batch: 360-97355		Analysis Date: 12/05/2012 1100				DryWt Corrected: N
Percent Moisture	17		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Percent Solids	83		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Oxidation Reduction Potential-Soluble	68		millivolts	0.010	0.010	1.0	SM 2580B
	Analysis Batch: 360-97359		Analysis Date: 12/05/2012 1100				DryWt Corrected: N

**Analytical Data**

Client: Olin Corporation

Job Number: 480-29484-1

**General Chemistry****Client Sample ID:** OC-SS-521-0.0/1.0-XXX**Lab Sample ID:** 480-29484-14      **Date Sampled:** 12/04/2012 1415  
**Client Matrix:** Solid      **% Moisture:** 59.0      **Date Received:** 12/05/2012 1900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	3.5	4.9	10	7199
	Analysis Batch: 460-139567		Analysis Date: 12/12/2012 1404				DryWt Corrected: Y
	Prep Batch: 460-138391		Prep Date: 12/06/2012 1230				
Chromium (hexavalent)	ND		mg/Kg	3.5	4.9	10	7199
	Analysis Batch: 460-140322		Analysis Date: 12/17/2012 1848				DryWt Corrected: Y
	Prep Batch: 460-140206		Prep Date: 12/14/2012 1438				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	3.87		SU	1.00	1.00	1.0	9045C
	Analysis Batch: 360-97355		Analysis Date: 12/05/2012 1103				DryWt Corrected: N
Percent Moisture	59		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Percent Solids	41		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Oxidation Reduction Potential-Soluble	67		millivolts	0.010	0.010	1.0	SM 2580B
	Analysis Batch: 360-97359		Analysis Date: 12/05/2012 1103				DryWt Corrected: N

**Analytical Data**

Client: Olin Corporation

Job Number: 480-29484-1

**General Chemistry****Client Sample ID:** OC-DUP-1

**Lab Sample ID:** 480-29484-15      **Date Sampled:** 12/04/2012 0000  
**Client Matrix:** Solid      **% Moisture:** 42.2      **Date Received:** 12/05/2012 1900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	2.4	3.4	10	7199
	Analysis Batch: 460-139567		Analysis Date: 12/12/2012 2016				DryWt Corrected: Y
	Prep Batch: 460-138391		Prep Date: 12/06/2012 1230				
Chromium (hexavalent)	ND		mg/Kg	2.4	3.3	10	7199
	Analysis Batch: 460-140322		Analysis Date: 12/18/2012 0050				DryWt Corrected: Y
	Prep Batch: 460-140206		Prep Date: 12/14/2012 1438				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	3.69		SU	1.00	1.00	1.0	9045C
	Analysis Batch: 360-97355		Analysis Date: 12/05/2012 1107				DryWt Corrected: N
Percent Moisture	42		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Percent Solids	58		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-138869		Analysis Date: 12/09/2012 1155				DryWt Corrected: N
Oxidation Reduction Potential-Soluble	62		millivolts	0.010	0.010	1.0	SM 2580B
	Analysis Batch: 360-97359		Analysis Date: 12/05/2012 1107				DryWt Corrected: N

## Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

**Method Blank - Batch: 460-138391****Method: 7199  
Preparation: 3060A**

Lab Sample ID:	MB 460-138391/1-A ^10	Analysis Batch:	460-139567	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-138391	Lab File ID:	c121315.CHW
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/12/2012 1315	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/06/2012 1230				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chromium (hexavalent)	ND		1.5	2.0

**Lab Control Sample Soluble - Batch: 460-138391****Method: 7199  
Preparation: 3060A**

Lab Sample ID:	LCSS 460-138391/2-A	Analysis Batch:	460-139567	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-138391	Lab File ID:	c121339.CHW
Dilution:	25	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/12/2012 1339	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/06/2012 1230				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	11.4	11.5	101	85 - 115	

**Lab Control Sample Insoluble - Batch: 460-138391****Method: 7199  
Preparation: 3060A**

Lab Sample ID:	LCSI 460-138391/3-A	Analysis Batch:	460-139567	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-138391	Lab File ID:	c121356.CHW
Dilution:	500	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/12/2012 1356	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/06/2012 1230				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	708	723	102	80 - 120	

## Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

### Matrix Spike Soluble - Batch: 460-138391

**Method: 7199**

**Preparation: 3060A**

Lab Sample ID:	480-29484-14	Analysis Batch:	460-139567	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-138391	Lab File ID:	c121455.CHW
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/12/2012 1455	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/06/2012 1230				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	ND	97.6	ND	13	75 - 125	F

### Matrix Spike Insoluble - Batch: 460-138391

**Method: 7199**

**Preparation: 3060A**

Lab Sample ID:	480-29484-14	Analysis Batch:	460-139567	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-138391	Lab File ID:	c121511.CHW
Dilution:	500	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/12/2012 1511	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/06/2012 1230				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	ND	1730	400	23	75 - 125	F

### Post Digestion Spike - Batch: 460-138391

**Method: 7199**

**Preparation: 3060A**

Lab Sample ID:	480-29484-14	Analysis Batch:	460-139567	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-138391	Lab File ID:	c121528.CHW
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/12/2012 1528	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/06/2012 1230				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	ND	97.6	98.9	101	85 - 115	

## Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

**Duplicate - Batch: 460-138391**

**Method: 7199**

**Preparation: 3060A**

Lab Sample ID:	480-29484-14	Analysis Batch:	460-139567	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-138391	Lab File ID:	c121421.CHW
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/12/2012 1421	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/06/2012 1230				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chromium (hexavalent)	ND	ND	NC	20	

## Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

**Method Blank - Batch: 460-140206****Method: 7199  
Preparation: 3060A**

Lab Sample ID:	MB 460-140206/1-A ^10	Analysis Batch:	460-140322	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-140206	Lab File ID:	c171758.CHW
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/17/2012 1758	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/14/2012 1438				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chromium (hexavalent)	ND		1.5	2.0

**Lab Control Sample Soluble - Batch: 460-140206****Method: 7199  
Preparation: 3060A**

Lab Sample ID:	LCSS 460-140206/2-A	Analysis Batch:	460-140322	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-140206	Lab File ID:	c171815.CHW
Dilution:	25	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/17/2012 1815	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/14/2012 1438				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	11.4	9.97	87	85 - 115	

**Lab Control Sample Insoluble - Batch: 460-140206****Method: 7199  
Preparation: 3060A**

Lab Sample ID:	LCSI 460-140206/3-A	Analysis Batch:	460-140322	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-140206	Lab File ID:	c171840.CHW
Dilution:	500	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/17/2012 1840	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/14/2012 1438				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	708	849	120	80 - 120	

## Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

### Matrix Spike Soluble - Batch: 460-140206

**Method: 7199**  
**Preparation: 3060A**

Lab Sample ID:	480-29484-14	Analysis Batch:	460-140322	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-140206	Lab File ID:	c171938.CHW
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/17/2012 1938	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/14/2012 1438				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	ND	97.6	22.5	23	75 - 125	F

### Matrix Spike Insoluble - Batch: 460-140206

**Method: 7199**  
**Preparation: 3060A**

Lab Sample ID:	480-29484-14	Analysis Batch:	460-140322	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-140206	Lab File ID:	c172003.CHW
Dilution:	500	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/17/2012 2003	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/14/2012 1438				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	ND	1730	381	22	75 - 125	F

### Post Digestion Spike - Batch: 460-140206

**Method: 7199**  
**Preparation: 3060A**

Lab Sample ID:	480-29484-14	Analysis Batch:	460-140322	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-140206	Lab File ID:	c172011.CHW
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/17/2012 2011	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/14/2012 1438				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	ND	97.6	104	106	85 - 115	

## Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

**Duplicate - Batch: 460-140206**

**Method: 7199**

**Preparation: 3060A**

Lab Sample ID:	480-29484-14	Analysis Batch:	460-140322	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-140206	Lab File ID:	c171913.CHW
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/17/2012 1913	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/14/2012 1438				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chromium (hexavalent)	ND	ND	NC	20	

## Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

### Lab Control Sample - Batch: 360-97355

**Method: 9045C**

**Preparation: N/A**

Lab Sample ID:	LCS 360-97353/1-A	Analysis Batch:	360-97355	Instrument ID:	pH meter
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	360-97353	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/05/2012 0915	Units:	SU	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	12/05/2012 0800				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH-Soluble	6.00	5.960	99	90 - 110	

### Duplicate - Batch: 360-97355

**Method: 9045C**

**Preparation: N/A**

Lab Sample ID:	480-29484-2	Analysis Batch:	360-97355	Instrument ID:	pH meter
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	360-97353	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/05/2012 0952	Units:	SU	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	12/05/2012 0800				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH-Soluble	4.21	4.220	0.2	10.0	

## Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

### Lab Control Sample - Batch: 360-97359

**Method: SM 2580B**

**Preparation: N/A**

Lab Sample ID:	LCS 360-97354/1-A	Analysis Batch:	360-97359	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	360-97354	Initial Weight/Volume:	
Analysis Date:	12/05/2012 0919	Units:	millivolts	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	12/05/2012 0800				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Oxidation Reduction Potential-Soluble	475	423	89	85 - 115	

### Duplicate - Batch: 360-97359

**Method: SM 2580B**

**Preparation: N/A**

Lab Sample ID:	480-29484-2	Analysis Batch:	360-97359	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	360-97354	Initial Weight/Volume:	
Analysis Date:	12/05/2012 0952	Units:	millivolts	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	12/05/2012 0800				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Oxidation Reduction Potential-Soluble	100	101	0	20	

## DATA REPORTING QUALIFIERS

Client: Olin Corporation

Job Number: 480-29484-1

Lab Section	Qualifier	Description
General Chemistry	F	MS or MSD exceeds the control limits

## Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Prep Batch: 360-97353</b>					
LCS 360-97353/1-A	Lab Control Sample	S	Solid	DI Leach	
480-29484-1	OC-SS-510-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-2	OC-SS-512-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-2DU	Duplicate	S	Solid	DI Leach	
480-29484-3	OC-SS-520-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-4	OC-SS-519-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-5	OC-SS-518-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-6	OC-SS-522-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-7	OC-SS-523-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-8	OC-SS-511-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-9	OC-SS-513-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-10	OC-SS-517-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-11	OC-SS-514-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-12	OC-SS-515-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-13	OC-SS-516-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-14	OC-SS-521-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-15	OC-DUP-1	S	Solid	DI Leach	
<b>Prep Batch: 360-97354</b>					
LCS 360-97354/1-A	Lab Control Sample	S	Solid	DI Leach	
480-29484-1	OC-SS-510-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-2	OC-SS-512-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-2DU	Duplicate	S	Solid	DI Leach	
480-29484-3	OC-SS-520-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-4	OC-SS-519-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-5	OC-SS-518-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-6	OC-SS-522-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-7	OC-SS-523-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-8	OC-SS-511-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-9	OC-SS-513-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-10	OC-SS-517-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-11	OC-SS-514-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-12	OC-SS-515-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-13	OC-SS-516-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-14	OC-SS-521-0.0/1.0-XXX	S	Solid	DI Leach	
480-29484-15	OC-DUP-1	S	Solid	DI Leach	

## Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:360-97355</b>					
LCS 360-97353/1-A	Lab Control Sample	S	Solid	9045C	
480-29484-1	OC-SS-510-0.0/1.0-XXX	S	Solid	9045C	
480-29484-2	OC-SS-512-0.0/1.0-XXX	S	Solid	9045C	
480-29484-2DU	Duplicate	S	Solid	9045C	
480-29484-3	OC-SS-520-0.0/1.0-XXX	S	Solid	9045C	
480-29484-4	OC-SS-519-0.0/1.0-XXX	S	Solid	9045C	
480-29484-5	OC-SS-518-0.0/1.0-XXX	S	Solid	9045C	
480-29484-6	OC-SS-522-0.0/1.0-XXX	S	Solid	9045C	
480-29484-7	OC-SS-523-0.0/1.0-XXX	S	Solid	9045C	
480-29484-8	OC-SS-511-0.0/1.0-XXX	S	Solid	9045C	
480-29484-9	OC-SS-513-0.0/1.0-XXX	S	Solid	9045C	
480-29484-10	OC-SS-517-0.0/1.0-XXX	S	Solid	9045C	
480-29484-11	OC-SS-514-0.0/1.0-XXX	S	Solid	9045C	
480-29484-12	OC-SS-515-0.0/1.0-XXX	S	Solid	9045C	
480-29484-13	OC-SS-516-0.0/1.0-XXX	S	Solid	9045C	
480-29484-14	OC-SS-521-0.0/1.0-XXX	S	Solid	9045C	
480-29484-15	OC-DUP-1	S	Solid	9045C	
<b>Analysis Batch:360-97359</b>					
LCS 360-97354/1-A	Lab Control Sample	S	Solid	SM 2580B	
480-29484-1	OC-SS-510-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29484-2	OC-SS-512-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29484-2DU	Duplicate	S	Solid	SM 2580B	
480-29484-3	OC-SS-520-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29484-4	OC-SS-519-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29484-5	OC-SS-518-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29484-6	OC-SS-522-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29484-7	OC-SS-523-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29484-8	OC-SS-511-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29484-9	OC-SS-513-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29484-10	OC-SS-517-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29484-11	OC-SS-514-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29484-12	OC-SS-515-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29484-13	OC-SS-516-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29484-14	OC-SS-521-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29484-15	OC-DUP-1	S	Solid	SM 2580B	

## Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Prep Batch: 460-138391</b>					
LCSI 460-138391/3-A ^500	Lab Control Sample Insoluble	T	Solid	3060A	
LCSS 460-138391/2-A ^25	Lab Control Sample Soluble	T	Solid	3060A	
MB 460-138391/1-A ^10	Method Blank	T	Solid	3060A	
480-29484-1	OC-SS-510-0.0/1.0-XXX	T	Solid	3060A	
480-29484-2	OC-SS-512-0.0/1.0-XXX	T	Solid	3060A	
480-29484-3	OC-SS-520-0.0/1.0-XXX	T	Solid	3060A	
480-29484-4	OC-SS-519-0.0/1.0-XXX	T	Solid	3060A	
480-29484-5	OC-SS-518-0.0/1.0-XXX	T	Solid	3060A	
480-29484-6	OC-SS-522-0.0/1.0-XXX	T	Solid	3060A	
480-29484-7	OC-SS-523-0.0/1.0-XXX	T	Solid	3060A	
480-29484-8	OC-SS-511-0.0/1.0-XXX	T	Solid	3060A	
480-29484-9	OC-SS-513-0.0/1.0-XXX	T	Solid	3060A	
480-29484-10	OC-SS-517-0.0/1.0-XXX	T	Solid	3060A	
480-29484-11	OC-SS-514-0.0/1.0-XXX	T	Solid	3060A	
480-29484-12	OC-SS-515-0.0/1.0-XXX	T	Solid	3060A	
480-29484-13	OC-SS-516-0.0/1.0-XXX	T	Solid	3060A	
480-29484-14	OC-SS-521-0.0/1.0-XXX	T	Solid	3060A	
480-29484-14DU	Duplicate	T	Solid	3060A	
480-29484-14MSI	Matrix Spike Insoluble	T	Solid	3060A	
480-29484-14MSS	Matrix Spike Soluble	T	Solid	3060A	
480-29484-15	OC-DUP-1	T	Solid	3060A	
<b>Analysis Batch: 460-138869</b>					
480-29484-1	OC-SS-510-0.0/1.0-XXX	T	Solid	Moisture	
480-29484-2	OC-SS-512-0.0/1.0-XXX	T	Solid	Moisture	
480-29484-3	OC-SS-520-0.0/1.0-XXX	T	Solid	Moisture	
480-29484-4	OC-SS-519-0.0/1.0-XXX	T	Solid	Moisture	
480-29484-5	OC-SS-518-0.0/1.0-XXX	T	Solid	Moisture	
480-29484-6	OC-SS-522-0.0/1.0-XXX	T	Solid	Moisture	
480-29484-7	OC-SS-523-0.0/1.0-XXX	T	Solid	Moisture	
480-29484-8	OC-SS-511-0.0/1.0-XXX	T	Solid	Moisture	
480-29484-9	OC-SS-513-0.0/1.0-XXX	T	Solid	Moisture	
480-29484-10	OC-SS-517-0.0/1.0-XXX	T	Solid	Moisture	
480-29484-11	OC-SS-514-0.0/1.0-XXX	T	Solid	Moisture	
480-29484-12	OC-SS-515-0.0/1.0-XXX	T	Solid	Moisture	
480-29484-13	OC-SS-516-0.0/1.0-XXX	T	Solid	Moisture	
480-29484-14	OC-SS-521-0.0/1.0-XXX	T	Solid	Moisture	
480-29484-14MS	Matrix Spike	T	Solid	Moisture	
480-29484-14MSD	Matrix Spike Duplicate	T	Solid	Moisture	
480-29484-15	OC-DUP-1	T	Solid	Moisture	

## Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:460-139567</b>					
LCSI 460-138391/3-A ^500	Lab Control Sample Insoluble	T	Solid	7199	460-138391
LCSS 460-138391/2-A ^25	Lab Control Sample Soluble	T	Solid	7199	460-138391
MB 460-138391/1-A ^10	Method Blank	T	Solid	7199	460-138391
480-29484-1	OC-SS-510-0.0/1.0-XXX	T	Solid	7199	460-138391
480-29484-2	OC-SS-512-0.0/1.0-XXX	T	Solid	7199	460-138391
480-29484-3	OC-SS-520-0.0/1.0-XXX	T	Solid	7199	460-138391
480-29484-4	OC-SS-519-0.0/1.0-XXX	T	Solid	7199	460-138391
480-29484-5	OC-SS-518-0.0/1.0-XXX	T	Solid	7199	460-138391
480-29484-6	OC-SS-522-0.0/1.0-XXX	T	Solid	7199	460-138391
480-29484-7	OC-SS-523-0.0/1.0-XXX	T	Solid	7199	460-138391
480-29484-8	OC-SS-511-0.0/1.0-XXX	T	Solid	7199	460-138391
480-29484-9	OC-SS-513-0.0/1.0-XXX	T	Solid	7199	460-138391
480-29484-10	OC-SS-517-0.0/1.0-XXX	T	Solid	7199	460-138391
480-29484-11	OC-SS-514-0.0/1.0-XXX	T	Solid	7199	460-138391
480-29484-12	OC-SS-515-0.0/1.0-XXX	T	Solid	7199	460-138391
480-29484-13	OC-SS-516-0.0/1.0-XXX	T	Solid	7199	460-138391
480-29484-14	OC-SS-521-0.0/1.0-XXX	T	Solid	7199	460-138391
480-29484-14DU	Duplicate	T	Solid	7199	460-138391
480-29484-14MSI	Matrix Spike Insoluble	T	Solid	7199	460-138391
480-29484-14MSS	Matrix Spike Soluble	T	Solid	7199	460-138391
480-29484-15	OC-DUP-1	T	Solid	7199	460-138391
<b>Prep Batch: 460-140206</b>					
LCSI 460-140206/3-A ^500	Lab Control Sample Insoluble	T	Solid	3060A	
LCSS 460-140206/2-A ^25	Lab Control Sample Soluble	T	Solid	3060A	
MB 460-140206/1-A ^10	Method Blank	T	Solid	3060A	
480-29484-1	OC-SS-510-0.0/1.0-XXX	T	Solid	3060A	
480-29484-2	OC-SS-512-0.0/1.0-XXX	T	Solid	3060A	
480-29484-3	OC-SS-520-0.0/1.0-XXX	T	Solid	3060A	
480-29484-4	OC-SS-519-0.0/1.0-XXX	T	Solid	3060A	
480-29484-5	OC-SS-518-0.0/1.0-XXX	T	Solid	3060A	
480-29484-6	OC-SS-522-0.0/1.0-XXX	T	Solid	3060A	
480-29484-7	OC-SS-523-0.0/1.0-XXX	T	Solid	3060A	
480-29484-8	OC-SS-511-0.0/1.0-XXX	T	Solid	3060A	
480-29484-9	OC-SS-513-0.0/1.0-XXX	T	Solid	3060A	
480-29484-10	OC-SS-517-0.0/1.0-XXX	T	Solid	3060A	
480-29484-11	OC-SS-514-0.0/1.0-XXX	T	Solid	3060A	
480-29484-12	OC-SS-515-0.0/1.0-XXX	T	Solid	3060A	
480-29484-13	OC-SS-516-0.0/1.0-XXX	T	Solid	3060A	
480-29484-14	OC-SS-521-0.0/1.0-XXX	T	Solid	3060A	
480-29484-14DU	Duplicate	T	Solid	3060A	
480-29484-14MSI	Matrix Spike Insoluble	T	Solid	3060A	
480-29484-14MSS	Matrix Spike Soluble	T	Solid	3060A	
480-29484-15	OC-DUP-1	T	Solid	3060A	

## Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:460-140322</b>					
LCSI 460-140206/3-A ^500	Lab Control Sample Insoluble	T	Solid	7199	460-140206
LCSS 460-140206/2-A ^25	Lab Control Sample Soluble	T	Solid	7199	460-140206
MB 460-140206/1-A ^10	Method Blank	T	Solid	7199	460-140206
480-29484-1	OC-SS-510-0.0/1.0-XXX	T	Solid	7199	460-140206
480-29484-2	OC-SS-512-0.0/1.0-XXX	T	Solid	7199	460-140206
480-29484-3	OC-SS-520-0.0/1.0-XXX	T	Solid	7199	460-140206
480-29484-4	OC-SS-519-0.0/1.0-XXX	T	Solid	7199	460-140206
480-29484-5	OC-SS-518-0.0/1.0-XXX	T	Solid	7199	460-140206
480-29484-6	OC-SS-522-0.0/1.0-XXX	T	Solid	7199	460-140206
480-29484-7	OC-SS-523-0.0/1.0-XXX	T	Solid	7199	460-140206
480-29484-8	OC-SS-511-0.0/1.0-XXX	T	Solid	7199	460-140206
480-29484-9	OC-SS-513-0.0/1.0-XXX	T	Solid	7199	460-140206
480-29484-10	OC-SS-517-0.0/1.0-XXX	T	Solid	7199	460-140206
480-29484-11	OC-SS-514-0.0/1.0-XXX	T	Solid	7199	460-140206
480-29484-12	OC-SS-515-0.0/1.0-XXX	T	Solid	7199	460-140206
480-29484-13	OC-SS-516-0.0/1.0-XXX	T	Solid	7199	460-140206
480-29484-14	OC-SS-521-0.0/1.0-XXX	T	Solid	7199	460-140206
480-29484-14DU	Duplicate	T	Solid	7199	460-140206
480-29484-14MSI	Matrix Spike Insoluble	T	Solid	7199	460-140206
480-29484-14MSS	Matrix Spike Soluble	T	Solid	7199	460-140206
480-29484-15	OC-DUP-1	T	Solid	7199	460-140206

#### Report Basis

S = Soluble

T = Total

# Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

## Laboratory Chronicle

Lab ID: 480-29484-1

Client ID: OC-SS-510-0.0/1.0-XXX

Sample Date/Time: 12/04/2012 08:20 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29484-B-1-A ^10		460-139567	460-138391	12/06/2012 12:30	10	TAL EDI	SEB
A:7199	480-29484-B-1-A ^10		460-139567	460-138391	12/12/2012 15:53	10	TAL EDI	SEB
P:3060A	480-29484-B-1-B ^10		460-140322	460-140206	12/14/2012 14:38	10	TAL EDI	SEB
A:7199	480-29484-B-1-B ^10		460-140322	460-140206	12/17/2012 20:36	10	TAL EDI	SEB
A:9045C	480-29484-A-1-A		360-97355		12/05/2012 09:34	1	TAL WFD	RWE
A:Moisture	480-29484-C-1		460-138869		12/09/2012 11:55	1	TAL EDI	IR
A:SM 2580B	480-29484-A-1-B		360-97359		12/05/2012 09:34	1	TAL WFD	GRB

Lab ID: 480-29484-2

Client ID: OC-SS-512-0.0/1.0-XXX

Sample Date/Time: 12/04/2012 08:45 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29484-B-2-A ^10		460-139567	460-138391	12/06/2012 12:30	10	TAL EDI	SEB
A:7199	480-29484-B-2-A ^10		460-139567	460-138391	12/12/2012 16:01	10	TAL EDI	SEB
P:3060A	480-29484-B-2-B ^10		460-140322	460-140206	12/14/2012 14:38	10	TAL EDI	SEB
A:7199	480-29484-B-2-B ^10		460-140322	460-140206	12/17/2012 20:52	10	TAL EDI	SEB
A:9045C	480-29484-A-2-A		360-97355		12/05/2012 09:45	1	TAL WFD	RWE
A:Moisture	480-29484-B-2		460-138869		12/09/2012 11:55	1	TAL EDI	IR
A:SM 2580B	480-29484-A-2-C		360-97359		12/05/2012 09:45	1	TAL WFD	GRB

Lab ID: 480-29484-2 DU

Client ID: OC-SS-512-0.0/1.0-XXX

Sample Date/Time: 12/04/2012 08:45 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:9045C	480-29484-A-2-B DU		360-97355		12/05/2012 09:52	1	TAL WFD	RWE
A:SM 2580B	480-29484-A-2-D DU		360-97359		12/05/2012 09:52	1	TAL WFD	GRB

Lab ID: 480-29484-3

Client ID: OC-SS-520-0.0/1.0-XXX

Sample Date/Time: 12/04/2012 09:05 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29484-B-3-A ^10		460-139567	460-138391	12/06/2012 12:30	10	TAL EDI	SEB
A:7199	480-29484-B-3-A ^10		460-139567	460-138391	12/12/2012 16:35	10	TAL EDI	SEB
P:3060A	480-29484-B-3-B ^10		460-140322	460-140206	12/14/2012 14:38	10	TAL EDI	SEB
A:7199	480-29484-B-3-B ^10		460-140322	460-140206	12/17/2012 21:17	10	TAL EDI	SEB
A:9045C	480-29484-A-3-A		360-97355		12/05/2012 09:57	1	TAL WFD	RWE
A:Moisture	480-29484-C-3		460-138869		12/09/2012 11:55	1	TAL EDI	IR
A:SM 2580B	480-29484-A-3-B		360-97359		12/05/2012 09:57	1	TAL WFD	GRB

# Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

## Laboratory Chronicle

Lab ID: 480-29484-4

Client ID: OC-SS-519-0.0/1.0-XXX

Sample Date/Time: 12/04/2012 09:25 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29484-C-4-A ^10		460-139567	460-138391	12/06/2012 12:30	10	TAL EDI	SEB
A:7199	480-29484-C-4-A ^10		460-139567	460-138391	12/12/2012 17:00	10	TAL EDI	SEB
P:3060A	480-29484-C-4-B ^10		460-140322	460-140206	12/14/2012 14:38	10	TAL EDI	SEB
A:7199	480-29484-C-4-B ^10		460-140322	460-140206	12/17/2012 21:42	10	TAL EDI	SEB
A:9045C	480-29484-A-4-A		360-97355		12/05/2012 10:02	1	TAL WFD	RWE
A:Moisture	480-29484-B-4		460-138869		12/09/2012 11:55	1	TAL EDI	IR
A:SM 2580B	480-29484-A-4-B		360-97359		12/05/2012 10:02	1	TAL WFD	GRB

Lab ID: 480-29484-5

Client ID: OC-SS-518-0.0/1.0-XXX

Sample Date/Time: 12/04/2012 09:45 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29484-C-5-A ^10		460-139567	460-138391	12/06/2012 12:30	10	TAL EDI	SEB
A:7199	480-29484-C-5-A ^10		460-139567	460-138391	12/12/2012 17:08	10	TAL EDI	SEB
P:3060A	480-29484-C-5-B ^10		460-140322	460-140206	12/14/2012 14:38	10	TAL EDI	SEB
A:7199	480-29484-C-5-B ^10		460-140322	460-140206	12/17/2012 21:50	10	TAL EDI	SEB
A:9045C	480-29484-A-5-A		360-97355		12/05/2012 10:10	1	TAL WFD	RWE
A:Moisture	480-29484-C-5		460-138869		12/09/2012 11:55	1	TAL EDI	IR
A:SM 2580B	480-29484-A-5-B		360-97359		12/05/2012 10:10	1	TAL WFD	GRB

Lab ID: 480-29484-6

Client ID: OC-SS-522-0.0/1.0-XXX

Sample Date/Time: 12/04/2012 10:20 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29484-B-6-A ^10		460-139567	460-138391	12/06/2012 12:30	10	TAL EDI	SEB
A:7199	480-29484-B-6-A ^10		460-139567	460-138391	12/12/2012 17:31	10	TAL EDI	SEB
P:3060A	480-29484-B-6-B ^10		460-140322	460-140206	12/14/2012 14:38	10	TAL EDI	SEB
A:7199	480-29484-B-6-B ^10		460-140322	460-140206	12/17/2012 22:15	10	TAL EDI	SEB
A:9045C	480-29484-A-6-A		360-97355		12/05/2012 10:19	1	TAL WFD	RWE
A:Moisture	480-29484-B-6		460-138869		12/09/2012 11:55	1	TAL EDI	IR
A:SM 2580B	480-29484-A-6-B		360-97359		12/05/2012 10:19	1	TAL WFD	GRB

# Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

## Laboratory Chronicle

Lab ID: 480-29484-7

Client ID: OC-SS-523-0.0/1.0-XXX

Sample Date/Time: 12/04/2012 10:35 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29484-C-7-A ^10		460-139567	460-138391	12/06/2012 12:30	10	TAL EDI	SEB
A:7199	480-29484-C-7-A ^10		460-139567	460-138391	12/12/2012 17:56	10	TAL EDI	SEB
P:3060A	480-29484-C-7-B ^10		460-140322	460-140206	12/14/2012 14:38	10	TAL EDI	SEB
A:7199	480-29484-C-7-B ^10		460-140322	460-140206	12/17/2012 22:31	10	TAL EDI	SEB
A:9045C	480-29484-A-7-A		360-97355		12/05/2012 10:25	1	TAL WFD	RWE
A:Moisture	480-29484-B-7		460-138869		12/09/2012 11:55	1	TAL EDI	IR
A:SM 2580B	480-29484-A-7-B		360-97359		12/05/2012 10:25	1	TAL WFD	GRB

Lab ID: 480-29484-8

Client ID: OC-SS-511-0.0/1.0-XXX

Sample Date/Time: 12/04/2012 11:15 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29484-B-8-A ^10		460-139567	460-138391	12/06/2012 12:30	10	TAL EDI	SEB
A:7199	480-29484-B-8-A ^10		460-139567	460-138391	12/12/2012 18:21	10	TAL EDI	SEB
P:3060A	480-29484-B-8-B ^10		460-140322	460-140206	12/14/2012 14:38	10	TAL EDI	SEB
A:7199	480-29484-B-8-B ^10		460-140322	460-140206	12/17/2012 22:56	10	TAL EDI	SEB
A:9045C	480-29484-A-8-A		360-97355		12/05/2012 10:31	1	TAL WFD	RWE
A:Moisture	480-29484-B-8		460-138869		12/09/2012 11:55	1	TAL EDI	IR
A:SM 2580B	480-29484-A-8-B		360-97359		12/05/2012 10:31	1	TAL WFD	GRB

Lab ID: 480-29484-9

Client ID: OC-SS-513-0.0/1.0-XXX

Sample Date/Time: 12/04/2012 11:35 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29484-B-9-A ^10		460-139567	460-138391	12/06/2012 12:30	10	TAL EDI	SEB
A:7199	480-29484-B-9-A ^10		460-139567	460-138391	12/12/2012 18:37	10	TAL EDI	SEB
P:3060A	480-29484-B-9-B ^10		460-140322	460-140206	12/14/2012 14:38	10	TAL EDI	SEB
A:7199	480-29484-B-9-B ^10		460-140322	460-140206	12/17/2012 23:12	10	TAL EDI	SEB
A:9045C	480-29484-A-9-A		360-97355		12/05/2012 10:38	1	TAL WFD	RWE
A:Moisture	480-29484-C-9		460-138869		12/09/2012 11:55	1	TAL EDI	IR
A:SM 2580B	480-29484-A-9-B		360-97359		12/05/2012 10:38	1	TAL WFD	GRB

# Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

## Laboratory Chronicle

**Lab ID:** 480-29484-10

**Client ID:** OC-SS-517-0.0/1.0-XXX

Sample Date/Time: 12/04/2012 11:45 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29484-B-10-A ^10		460-139567	460-138391	12/06/2012 12:30	10	TAL EDI	SEB
A:7199	480-29484-B-10-A ^10		460-139567	460-138391	12/12/2012 19:02	10	TAL EDI	SEB
P:3060A	480-29484-B-10-B ^10		460-140322	460-140206	12/14/2012 14:38	10	TAL EDI	SEB
A:7199	480-29484-B-10-B ^10		460-140322	460-140206	12/17/2012 23:28	10	TAL EDI	SEB
A:9045C	480-29484-A-10-A		360-97355		12/05/2012 10:46	1	TAL WFD	RWE
A:Moisture	480-29484-B-10		460-138869		12/09/2012 11:55	1	TAL EDI	IR
A:SM 2580B	480-29484-A-10-B		360-97359		12/05/2012 10:46	1	TAL WFD	GRB

**Lab ID:** 480-29484-11

**Client ID:** OC-SS-514-0.0/1.0-XXX

Sample Date/Time: 12/04/2012 12:55 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29484-B-11-A ^10		460-139567	460-138391	12/06/2012 12:30	10	TAL EDI	SEB
A:7199	480-29484-B-11-A ^10		460-139567	460-138391	12/12/2012 19:18	10	TAL EDI	SEB
P:3060A	480-29484-B-11-B ^10		460-140322	460-140206	12/14/2012 14:38	10	TAL EDI	SEB
A:7199	480-29484-B-11-B ^10		460-140322	460-140206	12/17/2012 23:45	10	TAL EDI	SEB
A:9045C	480-29484-A-11-A		360-97355		12/05/2012 10:52	1	TAL WFD	RWE
A:Moisture	480-29484-B-11		460-138869		12/09/2012 11:55	1	TAL EDI	IR
A:SM 2580B	480-29484-A-11-B		360-97359		12/05/2012 10:52	1	TAL WFD	GRB

**Lab ID:** 480-29484-12

**Client ID:** OC-SS-515-0.0/1.0-XXX

Sample Date/Time: 12/04/2012 13:10 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29484-B-12-A ^10		460-139567	460-138391	12/06/2012 12:30	10	TAL EDI	SEB
A:7199	480-29484-B-12-A ^10		460-139567	460-138391	12/12/2012 19:26	10	TAL EDI	SEB
P:3060A	480-29484-B-12-B ^10		460-140322	460-140206	12/14/2012 14:38	10	TAL EDI	SEB
A:7199	480-29484-B-12-B ^10		460-140322	460-140206	12/18/2012 00:01	10	TAL EDI	SEB
A:9045C	480-29484-A-12-A		360-97355		12/05/2012 10:56	1	TAL WFD	RWE
A:Moisture	480-29484-B-12		460-138869		12/09/2012 11:55	1	TAL EDI	IR
A:SM 2580B	480-29484-A-12-B		360-97359		12/05/2012 10:56	1	TAL WFD	GRB

# Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

## Laboratory Chronicle

**Lab ID:** 480-29484-13

**Client ID:** OC-SS-516-0.0/1.0-XXX

Sample Date/Time: 12/04/2012 13:30 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29484-B-13-A ^10		460-139567	460-138391	12/06/2012 12:30	10	TAL EDI	SEB
A:7199	480-29484-B-13-A ^10		460-139567	460-138391	12/12/2012 19:59	10	TAL EDI	SEB
P:3060A	480-29484-B-13-B ^10		460-140322	460-140206	12/14/2012 14:38	10	TAL EDI	SEB
A:7199	480-29484-B-13-B ^10		460-140322	460-140206	12/18/2012 00:34	10	TAL EDI	SEB
A:9045C	480-29484-A-13-A		360-97355		12/05/2012 11:00	1	TAL WFD	RWE
A:Moisture	480-29484-B-13		460-138869		12/09/2012 11:55	1	TAL EDI	IR
A:SM 2580B	480-29484-A-13-B		360-97359		12/05/2012 11:00	1	TAL WFD	GRB

**Lab ID:** 480-29484-14

**Client ID:** OC-SS-521-0.0/1.0-XXX

Sample Date/Time: 12/04/2012 14:15 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29484-B-14-A ^10		460-139567	460-138391	12/06/2012 12:30	10	TAL EDI	SEB
A:7199	480-29484-B-14-A ^10		460-139567	460-138391	12/12/2012 14:04	10	TAL EDI	SEB
P:3060A	480-29484-B-14-E ^10		460-140322	460-140206	12/14/2012 14:38	10	TAL EDI	SEB
A:7199	480-29484-B-14-E ^10		460-140322	460-140206	12/17/2012 18:48	10	TAL EDI	SEB
A:9045C	480-29484-A-14-A		360-97355		12/05/2012 11:03	1	TAL WFD	RWE
A:Moisture	480-29484-B-14		460-138869		12/09/2012 11:55	1	TAL EDI	IR
A:SM 2580B	480-29484-A-14-B		360-97359		12/05/2012 11:03	1	TAL WFD	GRB

**Lab ID:** 480-29484-14 MS

**Client ID:** OC-SS-521-0.0/1.0-XXX

Sample Date/Time: 12/04/2012 14:15 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	480-29484-B-14 MS		460-138869		12/09/2012 11:55	1	TAL EDI	IR

**Lab ID:** 480-29484-14 MSD

**Client ID:** OC-SS-521-0.0/1.0-XXX

Sample Date/Time: 12/04/2012 14:15 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	480-29484-B-14 MSD		460-138869		12/09/2012 11:55	1	TAL EDI	IR

# Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

## Laboratory Chronicle

Lab ID: 480-29484-14 DU

Client ID: OC-SS-521-0.0/1.0-XXX

Sample Date/Time: 12/04/2012 14:15 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29484-B-14-B DU ^10	460-139567	460-138391	12/06/2012 12:30	10	TAL EDI	SEB	
A:7199	480-29484-B-14-B DU ^10	460-139567	460-138391	12/12/2012 14:21	10	TAL EDI	SEB	
P:3060A	480-29484-B-14-F DU ^10	460-140322	460-140206	12/14/2012 14:38	10	TAL EDI	SEB	
A:7199	480-29484-B-14-F DU ^10	460-140322	460-140206	12/17/2012 19:13	10	TAL EDI	SEB	

Lab ID: 480-29484-14 MSS

Client ID: OC-SS-521-0.0/1.0-XXX

Sample Date/Time: 12/04/2012 14:15 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29484-B-14-C MSS ^40	460-139567	460-138391	12/06/2012 12:30	40	TAL EDI	SEB	
A:7199	480-29484-B-14-C MSS ^40	460-139567	460-138391	12/12/2012 14:55	40	TAL EDI	SEB	
P:3060A	480-29484-B-14-D MSI ^500	460-139567	460-138391	12/06/2012 12:30	500	TAL EDI	SEB	
A:7199	480-29484-B-14-D MSI ^500	460-139567	460-138391	12/12/2012 15:11	500	TAL EDI	SEB	
P:3060A	480-29484-B-14-A PDS ^40	460-139567	460-138391	12/06/2012 12:30	40	TAL EDI	SEB	
A:7199	480-29484-B-14-A PDS ^40	460-139567	460-138391	12/12/2012 15:28	40	TAL EDI	SEB	
P:3060A	480-29484-B-14-G MSS ^40	460-140322	460-140206	12/14/2012 14:38	40	TAL EDI	SEB	
A:7199	480-29484-B-14-G MSS ^40	460-140322	460-140206	12/17/2012 19:38	40	TAL EDI	SEB	
P:3060A	480-29484-B-14-H MSI ^500	460-140322	460-140206	12/14/2012 14:38	500	TAL EDI	SEB	
A:7199	480-29484-B-14-H MSI ^500	460-140322	460-140206	12/17/2012 20:03	500	TAL EDI	SEB	
P:3060A	480-29484-B-14-E PDS ^40	460-140322	460-140206	12/14/2012 14:38	40	TAL EDI	SEB	
A:7199	480-29484-B-14-E PDS ^40	460-140322	460-140206	12/17/2012 20:11	40	TAL EDI	SEB	

# Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

## Laboratory Chronicle

**Lab ID:** 480-29484-15

**Client ID:** OC-DUP-1

Sample Date/Time: 12/04/2012 00:00 Received Date/Time: 12/05/2012 19:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29484-C-15-A ^10		460-139567	460-138391	12/06/2012 12:30	10	TAL EDI	SEB
A:7199	480-29484-C-15-A ^10		460-139567	460-138391	12/12/2012 20:16	10	TAL EDI	SEB
P:3060A	480-29484-C-15-B ^10		460-140322	460-140206	12/14/2012 14:38	10	TAL EDI	SEB
A:7199	480-29484-C-15-B ^10		460-140322	460-140206	12/18/2012 00:50	10	TAL EDI	SEB
A:9045C	480-29484-A-15-A		360-97355		12/05/2012 11:07	1	TAL WFD	RWE
A:Moisture	480-29484-B-15		460-138869		12/09/2012 11:55	1	TAL EDI	IR
A:SM 2580B	480-29484-A-15-B		360-97359		12/05/2012 11:07	1	TAL WFD	GRB

**Lab ID:** MB

**Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	MB 460-138391/1-A ^10		460-139567	460-138391	12/06/2012 12:30	10	TAL EDI	SEB
A:7199	MB 460-138391/1-A ^10		460-139567	460-138391	12/12/2012 13:15	10	TAL EDI	SEB
P:3060A	MB 460-140206/1-A ^10		460-140322	460-140206	12/14/2012 14:38	10	TAL EDI	SEB
A:7199	MB 460-140206/1-A ^10		460-140322	460-140206	12/17/2012 17:58	10	TAL EDI	SEB

**Lab ID:** LCS

**Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:9045C	LCS 360-97353/1-A		360-97355		12/05/2012 09:15	1	TAL WFD	RWE
A:SM 2580B	LCS 360-97354/1-A		360-97359		12/05/2012 09:19	1	TAL WFD	GRB

## Quality Control Results

Client: Olin Corporation

Job Number: 480-29484-1

### Laboratory Chronicle

Lab ID: LCSS		Client ID: N/A		Sample Date/Time: N/A		Received Date/Time: N/A		
Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	LCSS 460-138391/2-A ^25		460-139567	460-138391	12/06/2012 12:30	25	TAL EDI	SEB
A:7199	LCSS 460-138391/2-A ^25		460-139567	460-138391	12/12/2012 13:39	25	TAL EDI	SEB
P:3060A	LCSI 460-138391/3-A ^500		460-139567	460-138391	12/06/2012 12:30	500	TAL EDI	SEB
A:7199	LCSI 460-138391/3-A ^500		460-139567	460-138391	12/12/2012 13:56	500	TAL EDI	SEB
P:3060A	LCSS 460-140206/2-A ^25		460-140322	460-140206	12/14/2012 14:38	25	TAL EDI	SEB
A:7199	LCSS 460-140206/2-A ^25		460-140322	460-140206	12/17/2012 18:15	25	TAL EDI	SEB
P:3060A	LCSI 460-140206/3-A ^500		460-140322	460-140206	12/14/2012 14:38	500	TAL EDI	SEB
A:7199	LCSI 460-140206/3-A ^500		460-140322	460-140206	12/17/2012 18:40	500	TAL EDI	SEB

#### Lab References:

TAL EDI = TestAmerica Edison

TAL WFD = TestAmerica Westfield

## Certification Summary

Client: Olin Corporation

Project/Site: Olin Chemical Wilmington MA Superfund S

TestAmerica Job ID: 480-29484-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Edison	Connecticut	State Program	1	PH-0200
TestAmerica Edison	DE Haz. Subst. Cleanup Act	State Program	3	N/A
TestAmerica Edison	New Jersey	NELAP	2	12028
TestAmerica Edison	New York	NELAP	2	11452
TestAmerica Edison	Pennsylvania	NELAP	3	68-00522
TestAmerica Edison	Rhode Island	State Program	1	LAO00132
TestAmerica Edison	USDA	Federal		NJCA-003-08
TestAmerica Westfield	Connecticut	State Program	1	PH-0494
TestAmerica Westfield	Massachusetts	State Program	1	M-MA014
TestAmerica Westfield	New Hampshire	NELAP	1	2539

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

# **GENERAL CHEMISTRY**

COVER PAGE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 480-29484-1

SDG No.: \_\_\_\_\_

Project: Olin Chemical Wilmington MA Superfund S

Client Sample ID	Lab Sample ID
OC-SS-510-0.0/1.0-XXX	480-29484-1
OC-SS-512-0.0/1.0-XXX	480-29484-2
OC-SS-520-0.0/1.0-XXX	480-29484-3
OC-SS-519-0.0/1.0-XXX	480-29484-4
OC-SS-518-0.0/1.0-XXX	480-29484-5
OC-SS-522-0.0/1.0-XXX	480-29484-6
OC-SS-523-0.0/1.0-XXX	480-29484-7
OC-SS-511-0.0/1.0-XXX	480-29484-8
OC-SS-513-0.0/1.0-XXX	480-29484-9
OC-SS-517-0.0/1.0-XXX	480-29484-10
OC-SS-514-0.0/1.0-XXX	480-29484-11
OC-SS-515-0.0/1.0-XXX	480-29484-12
OC-SS-516-0.0/1.0-XXX	480-29484-13
OC-SS-521-0.0/1.0-XXX	480-29484-14
OC-DUP-1	480-29484-15

Comments:

COVER PAGE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job Number: 480-29484-1

SDG No.: \_\_\_\_\_

Project: Olin Chemical Wilmington MA Superfund S

Client Sample ID	Lab Sample ID
OC-SS-510-0.0/1.0-XXX	480-29484-1
OC-SS-512-0.0/1.0-XXX	480-29484-2
OC-SS-520-0.0/1.0-XXX	480-29484-3
OC-SS-519-0.0/1.0-XXX	480-29484-4
OC-SS-518-0.0/1.0-XXX	480-29484-5
OC-SS-522-0.0/1.0-XXX	480-29484-6
OC-SS-523-0.0/1.0-XXX	480-29484-7
OC-SS-511-0.0/1.0-XXX	480-29484-8
OC-SS-513-0.0/1.0-XXX	480-29484-9
OC-SS-517-0.0/1.0-XXX	480-29484-10
OC-SS-514-0.0/1.0-XXX	480-29484-11
OC-SS-515-0.0/1.0-XXX	480-29484-12
OC-SS-516-0.0/1.0-XXX	480-29484-13
OC-SS-521-0.0/1.0-XXX	480-29484-14
OC-DUP-1	480-29484-15

Comments:

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: OC-SS-510-0.0/1.0-XXX

Lab Sample ID: 480-29484-1

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 08:20

Reporting Basis: DRY

Date Received: 12/05/2012 19:00

% Solids: 75.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	2.6	1.9	mg/Kg			10	7199
18540-29-9	Chromium (hexavalent)	ND	2.7	2.0	mg/Kg			10	7199

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: OC-SS-512-0.0/1.0-XXX

Lab Sample ID: 480-29484-2

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 08:45

Reporting Basis: DRY

Date Received: 12/05/2012 19:00

% Solids: 69.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	2.9	2.1	mg/Kg			10	7199
18540-29-9	Chromium (hexavalent)	ND	2.9	2.1	mg/Kg			10	7199

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: OC-SS-520-0.0/1.0-XXX

Lab Sample ID: 480-29484-3

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 09:05

Reporting Basis: DRY

Date Received: 12/05/2012 19:00

% Solids: 41.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	4.7	3.4	mg/Kg			10	7199
18540-29-9	Chromium (hexavalent)	ND	4.7	3.4	mg/Kg			10	7199

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: OC-SS-519-0.0/1.0-XXX

Lab Sample ID: 480-29484-4

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 09:25

Reporting Basis: DRY

Date Received: 12/05/2012 19:00

% Solids: 48.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	4.0	2.9	mg/Kg			10	7199
18540-29-9	Chromium (hexavalent)	ND	4.1	3.0	mg/Kg			10	7199

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: OC-SS-518-0.0/1.0-XXX

Lab Sample ID: 480-29484-5

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 09:45

Reporting Basis: DRY

Date Received: 12/05/2012 19:00

% Solids: 49.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	3.9	2.9	mg/Kg			10	7199
18540-29-9	Chromium (hexavalent)	ND	3.9	2.9	mg/Kg			10	7199

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: OC-SS-522-0.0/1.0-XXX

Lab Sample ID: 480-29484-6

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 10:20

Reporting Basis: DRY

Date Received: 12/05/2012 19:00

% Solids: 64.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	3.2	2.3	mg/Kg			10	7199
18540-29-9	Chromium (hexavalent)	ND	3.1	2.3	mg/Kg			10	7199

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: OC-SS-523-0.0/1.0-XXX

Lab Sample ID: 480-29484-7

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 10:35

Reporting Basis: DRY

Date Received: 12/05/2012 19:00

% Solids: 57.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	3.5	2.6	mg/Kg			10	7199
18540-29-9	Chromium (hexavalent)	ND	3.5	2.6	mg/Kg			10	7199

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: OC-SS-511-0.0/1.0-XXX

Lab Sample ID: 480-29484-8

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 11:15

Reporting Basis: DRY

Date Received: 12/05/2012 19:00

% Solids: 54.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	3.8	2.7	mg/Kg			10	7199
18540-29-9	Chromium (hexavalent)	ND	3.7	2.7	mg/Kg			10	7199

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: OC-SS-513-0.0/1.0-XXX

Lab Sample ID: 480-29484-9

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 11:35

Reporting Basis: DRY

Date Received: 12/05/2012 19:00

% Solids: 57.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	3.5	2.5	mg/Kg			10	7199
18540-29-9	Chromium (hexavalent)	ND	3.5	2.5	mg/Kg			10	7199

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: OC-SS-517-0.0/1.0-XXX

Lab Sample ID: 480-29484-10

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 11:45

Reporting Basis: DRY

Date Received: 12/05/2012 19:00

% Solids: 81.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	2.4	1.7	mg/Kg			10	7199
18540-29-9	Chromium (hexavalent)	ND	2.4	1.8	mg/Kg			10	7199

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: OC-SS-514-0.0/1.0-XXX

Lab Sample ID: 480-29484-11

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 12:55

Reporting Basis: DRY

Date Received: 12/05/2012 19:00

% Solids: 91.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	2.2	1.6	mg/Kg			10	7199
18540-29-9	Chromium (hexavalent)	ND	2.2	1.6	mg/Kg			10	7199

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: OC-SS-515-0.0/1.0-XXX

Lab Sample ID: 480-29484-12

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 13:10

Reporting Basis: DRY

Date Received: 12/05/2012 19:00

% Solids: 81.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	2.5	1.8	mg/Kg			10	7199
18540-29-9	Chromium (hexavalent)	ND	2.5	1.8	mg/Kg			10	7199

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: OC-SS-516-0.0/1.0-XXX

Lab Sample ID: 480-29484-13

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 13:30

Reporting Basis: DRY

Date Received: 12/05/2012 19:00

% Solids: 82.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	2.4	1.7	mg/Kg			10	7199
18540-29-9	Chromium (hexavalent)	ND	2.4	1.7	mg/Kg			10	7199

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: OC-SS-521-0.0/1.0-XXX

Lab Sample ID: 480-29484-14

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 14:15

Reporting Basis: DRY

Date Received: 12/05/2012 19:00

% Solids: 41.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	4.9	3.5	mg/Kg			10	7199
18540-29-9	Chromium (hexavalent)	ND	4.9	3.5	mg/Kg			10	7199

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: OC-DUP-1

Lab Sample ID: 480-29484-15

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 00:00

Reporting Basis: DRY

Date Received: 12/05/2012 19:00

% Solids: 57.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	3.4	2.4	mg/Kg			10	7199
18540-29-9	Chromium (hexavalent)	ND	3.3	2.4	mg/Kg			10	7199

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SS-510-0.0/1.0-XXX

Lab Sample ID: 480-29484-1

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 08:20

Reporting Basis: WET

Date Received: 12/05/2012 19:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	4.24	1.00		SU			1	9045C
	Oxidation Reduction Potential	120	0.010		millivo lts			1	SM 2580B

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SS-512-0.0/1.0-XXX

Lab Sample ID: 480-29484-2

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 08:45

Reporting Basis: WET

Date Received: 12/05/2012 19:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	4.21	1.00		SU			1	9045C
	Oxidation Reduction Potential	100	0.010		millivo lts			1	SM 2580B

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SS-520-0.0/1.0-XXX

Lab Sample ID: 480-29484-3

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 09:05

Reporting Basis: WET

Date Received: 12/05/2012 19:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	3.99	1.00		SU			1	9045C
	Oxidation Reduction Potential	98	0.010		millivolt			1	SM 2580B

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SS-519-0.0/1.0-XXX

Lab Sample ID: 480-29484-4

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 09:25

Reporting Basis: WET

Date Received: 12/05/2012 19:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	3.58	1.00		SU			1	9045C
	Oxidation Reduction Potential	97	0.010		millivolt			1	SM 2580B

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SS-518-0.0/1.0-XXX

Lab Sample ID: 480-29484-5

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 09:45

Reporting Basis: WET

Date Received: 12/05/2012 19:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	3.64	1.00		SU			1	9045C
	Oxidation Reduction Potential	68	0.010		millivo lts			1	SM 2580B

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SS-522-0.0/1.0-XXX

Lab Sample ID: 480-29484-6

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 10:20

Reporting Basis: WET

Date Received: 12/05/2012 19:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	3.90	1.00		SU			1	9045C
	Oxidation Reduction Potential	67	0.010		millivolt			1	SM 2580B

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SS-523-0.0/1.0-XXX

Lab Sample ID: 480-29484-7

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 10:35

Reporting Basis: WET

Date Received: 12/05/2012 19:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	3.71	1.00		SU			1	9045C
	Oxidation Reduction Potential	82	0.010		millivolt			1	SM 2580B

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SS-511-0.0/1.0-XXX

Lab Sample ID: 480-29484-8

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 11:15

Reporting Basis: WET

Date Received: 12/05/2012 19:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	6.49	1.00		SU			1	9045C
	Oxidation Reduction Potential	25	0.010		millivo lts			1	SM 2580B

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SS-513-0.0/1.0-XXX

Lab Sample ID: 480-29484-9

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 11:35

Reporting Basis: WET

Date Received: 12/05/2012 19:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	6.28	1.00		SU			1	9045C
	Oxidation Reduction Potential	20	0.010		millivo lts			1	SM 2580B

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SS-517-0.0/1.0-XXX

Lab Sample ID: 480-29484-10

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 11:45

Reporting Basis: WET

Date Received: 12/05/2012 19:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	3.82	1.00		SU			1	9045C
	Oxidation Reduction Potential	64	0.010		millivo lts			1	SM 2580B

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SS-514-0.0/1.0-XXX

Lab Sample ID: 480-29484-11

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 12:55

Reporting Basis: WET

Date Received: 12/05/2012 19:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	4.59	1.00		SU			1	9045C
	Oxidation Reduction Potential	61	0.010		millivolt			1	SM 2580B

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SS-515-0.0/1.0-XXX

Lab Sample ID: 480-29484-12

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 13:10

Reporting Basis: WET

Date Received: 12/05/2012 19:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	4.55	1.00		SU			1	9045C
	Oxidation Reduction Potential	57	0.010		millivo lts			1	SM 2580B

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SS-516-0.0/1.0-XXX

Lab Sample ID: 480-29484-13

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 13:30

Reporting Basis: WET

Date Received: 12/05/2012 19:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	3.59	1.00		SU			1	9045C
	Oxidation Reduction Potential	68	0.010		millivo lts			1	SM 2580B

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SS-521-0.0/1.0-XXX

Lab Sample ID: 480-29484-14

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 14:15

Reporting Basis: WET

Date Received: 12/05/2012 19:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	3.87	1.00		SU			1	9045C
	Oxidation Reduction Potential	67	0.010		millivo lts			1	SM 2580B

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-DUP-1

Lab Sample ID: 480-29484-15

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG ID.:

Matrix: Solid

Date Sampled: 12/04/2012 00:00

Reporting Basis: WET

Date Received: 12/05/2012 19:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	3.69	1.00		SU			1	9045C
	Oxidation Reduction Potential	62	0.010		millivo lts			1	SM 2580B

2-IN  
CALIBRATION QUALITY CONTROL  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Analyst: SEB Batch Start Date: 12/12/2012

Reporting Units: ug/L Analytical Batch No.: 139567

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
6	ICV	12:58	Chromium (hexavalent)	24.8	25.0	99	90-110	J	WThcrIM6_00433
7	ICB	13:06	Chromium (hexavalent)	0.326				J	
18	CCV	14:38	Chromium (hexavalent)	25.2	25.0	101	90-110	J	WThcrIM6_00433
19	CCB	14:46	Chromium (hexavalent)	0.473				J	
30	CCV	16:18	Chromium (hexavalent)	25.0	25.0	100	90-110	J	WThcrIM6_00433
31	CCB	16:26	Chromium (hexavalent)	ND					
42	CCV	18:04	Chromium (hexavalent)	25.3	25.0	101	90-110	J	WThcrIM6_00433
43	CCB	18:12	Chromium (hexavalent)	0.407				J	
54	CCV	19:43	Chromium (hexavalent)	25.0	25.0	100	90-110	J	WThcrIM6_00433
55	CCB	19:51	Chromium (hexavalent)	0.429				J	
66	CCV	21:23	Chromium (hexavalent)	25.4	25.0	101	90-110	J	WThcrIM6_00433
67	CCB	21:31	Chromium (hexavalent)	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN  
CALIBRATION QUALITY CONTROL  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Analyst: SEB Batch Start Date: 12/17/2012

Reporting Units: ug/L Analytical Batch No.: 140322

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
6	ICV	17:02	Chromium (hexavalent)	24.1	25.0	96	90-110		WThcrIM6_00434
7	ICB	17:50	Chromium (hexavalent)	ND					
18	CCV	19:21	Chromium (hexavalent)	24.2	25.0	97	90-110		WThcrIM6_00434
19	CCB	19:29	Chromium (hexavalent)	0.241				J	
30	CCV	21:01	Chromium (hexavalent)	23.3	25.0	93	90-110		WThcrIM6_00434
31	CCB	21:09	Chromium (hexavalent)	ND					
42	CCV	22:39	Chromium (hexavalent)	26.6	25.0	107	90-110		WThcrIM6_00434
43	CCB	22:47	Chromium (hexavalent)	0.297				J	
54	CCV	00:17	Chromium (hexavalent)	26.3	25.0	105	90-110		WThcrIM6_00434
55	CCB	00:26	Chromium (hexavalent)	0.210				J	
64	CCV	01:40	Chromium (hexavalent)	24.6	25.0	98	90-110		WThcrIM6_00434
65	CCB	01:48	Chromium (hexavalent)	0.147				J	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN  
CALIBRATION QUALITY CONTROL  
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Analyst: RWE Batch Start Date: 12/05/2012

Reporting Units: SU Analytical Batch No.: 97355

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
12	CCV	10:43	pH	7.020	7.00	100	90-110		W12H_PH_7_00001
19	CCV	11:13	pH	7.010	7.00	100	90-110		W12H_PH_7_00001

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN  
METHOD BLANK  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 7199	139567 MB 460-138391/1-A	Date: 12/12/2012 13:15 Chromium (hexavalent) ^10	Prep Batch: 138391	ND	Date: 12/06/2012 12:30 mg/Kg	2.0	10
Batch ID: 7199	140322 MB 460-140206/1-A	Date: 12/17/2012 17:58 Chromium (hexavalent) ^10	Prep Batch: 140206	ND	Date: 12/14/2012 14:38 mg/Kg	2.0	10

5-IN  
 MATRIX SPIKE SOLUBLE SAMPLE RECOVERY  
 GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29484-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 139567	Date: 12/12/2012 14:55		Prep Batch: 138391		Date: 12/06/2012 12:30						
7199 480-29484-14	Chromium (hexavalent)		ND		mg/Kg						
7199 480-29484-14	Chromium (hexavalent)		ND		mg/Kg	97.6	13	75-125			F
MSS											
Batch ID: 139567	Date: 12/12/2012 15:11		Prep Batch: 138391		Date: 12/06/2012 12:30						
7199 480-29484-14	Chromium (hexavalent)		ND		mg/Kg						
7199 480-29484-14	Chromium (hexavalent)		400		mg/Kg	1730	23	75-125			F
MSI											
Batch ID: 139567	Date: 12/12/2012 15:28		Prep Batch: 138391		Date: 12/06/2012 12:30						
7199 480-29484-14	Chromium (hexavalent)		ND		mg/Kg						
7199 480-29484-14	Chromium (hexavalent)		98.9		mg/Kg	97.6	101	85-115			
PDS											
Batch ID: 140322	Date: 12/17/2012 19:38		Prep Batch: 140206		Date: 12/14/2012 14:38						
7199 480-29484-14	Chromium (hexavalent)		ND		mg/Kg						
7199 480-29484-14	Chromium (hexavalent)		22.5		mg/Kg	97.6	23	75-125			F
MSS											
Batch ID: 140322	Date: 12/17/2012 20:03		Prep Batch: 140206		Date: 12/14/2012 14:38						
7199 480-29484-14	Chromium (hexavalent)		ND		mg/Kg						
7199 480-29484-14	Chromium (hexavalent)		381		mg/Kg	1730	22	75-125			F
MSI											
Batch ID: 140322	Date: 12/17/2012 20:11		Prep Batch: 140206		Date: 12/14/2012 14:38						
7199 480-29484-14	Chromium (hexavalent)		ND		mg/Kg						
7199 480-29484-14	Chromium (hexavalent)		104		mg/Kg	97.6	106	85-115			
PDS											

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Note - Results and Reporting Limits have been adjusted for dry weight.

6-IN  
DUPLICATE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Matrix: Solid

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID:	139567	Date: 12/12/2012 14:21	Prep Batch: 138391	Date: 12/06/2012 12:30				
7199	OC-SS-521-0.0/1.0-	480-29484-14	Chromium (hexavalent)	ND	mg/Kg			
	XXX							
7199	OC-SS-521-0.0/1.0-	480-29484-14 DU	Chromium (hexavalent)	ND	mg/Kg	NC	20	
	XXX							
Batch ID:	140322	Date: 12/17/2012 19:13	Prep Batch: 140206	Date: 12/14/2012 14:38				
7199	OC-SS-521-0.0/1.0-	480-29484-14	Chromium (hexavalent)	ND	mg/Kg			
	XXX							
7199	OC-SS-521-0.0/1.0-	480-29484-14 DU	Chromium (hexavalent)	ND	mg/Kg	NC	20	
	XXX							

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

6-IN  
DUPLICATE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Matrix: Solid

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	Limit	Qual
Batch ID:	97355	Date: 12/05/2012 09:52						
9045C	OC-SS-512-0.0/1.0-	480-29484-2	pH	4.21	SU			
	XXX							
9045C	OC-SS-512-0.0/1.0-	480-29484-2 DU	pH	4.220	SU	0.2	10.0	
	XXX							
Batch ID:	97359	Date: 12/05/2012 09:52						
SM 2580B	OC-SS-512-0.0/1.0-	480-29484-2	Oxidation Reduction Potential	100	millivolts			
	XXX							
SM 2580B	OC-SS-512-0.0/1.0-	480-29484-2 DU	Oxidation Reduction Potential	101	millivolts	0	20	
	XXX							

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN  
LAB CONTROL SAMPLE SOLUBLE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
	Batch ID: 139567	Date: 12/12/2012 13:39		Prep Batch:	138391	Date: 12/06/2012 12:30					
				LCS Source:	WThcrsLCS_00067						
7199	LCSS 460-138391/2- A ^25	Chromium (hexavalent)	11.5	mg/Kg		11.4	101	85-115			
	Batch ID: 139567	Date: 12/12/2012 13:56		Prep Batch:	138391	Date: 12/06/2012 12:30					
				LCS Source:	WThcrPbCr_00004						
7199	LCSI 460-138391/3- A ^500	Chromium (hexavalent)	723	mg/Kg		708	102	80-120			
	Batch ID: 140322	Date: 12/17/2012 18:15		Prep Batch:	140206	Date: 12/14/2012 14:38					
				LCS Source:	WThcrsLCS_00067						
7199	LCSS 460-140206/2- A ^25	Chromium (hexavalent)	9.97	mg/Kg		11.4	87	85-115			
	Batch ID: 140322	Date: 12/17/2012 18:40		Prep Batch:	140206	Date: 12/14/2012 14:38					
				LCS Source:	WThcrPbCr_00004						
7199	LCSI 460-140206/3- A ^500	Chromium (hexavalent)	849	mg/Kg		708	120	80-120			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN  
LAB CONTROL SAMPLE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 97355 Date: 12/05/2012 09:15											
9045C	LCS 360-97353/1-A	pH	5.960	SU		6.00	99	90-110			
Batch ID: 97359 Date: 12/05/2012 09:19											
SM 2580B	LCS 360-97354/1-A	Oxidation Reduction Potential	423	millivolts		475	89	85-115			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job Number: 480-29484-1

SDG Number: \_\_\_\_\_

Matrix: Solid

Instrument ID: IC

Method: 7199

MDL Date: 12/22/2008 11:16

Prep Method: 3060A

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Chromium (hexavalent)		0.2	0.145

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job Number: 480-29484-1

SDG Number: \_\_\_\_\_

Matrix: Solid

Instrument ID: IC

Method: 7199

XMDL Date: 12/22/2008 11:18

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Chromium (hexavalent)		5	0.109

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job Number: 480-29484-1

SDG Number: \_\_\_\_\_

Matrix: Solid

Instrument ID: NOEQUIP

Method: Moisture

RL Date: 02/15/2007 17:07

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job Number: 480-29484-1

SDG Number: \_\_\_\_\_

Matrix: Solid

Instrument ID: NOEQUIP

Method: Moisture

XRL Date: 01/01/2007 16:49

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY - SOLUBLE

Lab Name: TestAmerica Westfield

Job Number: 480-29484-1

SDG Number: \_\_\_\_\_

Matrix: Solid

Instrument ID: pH meter

Method: 9045C

RL Date: 07/04/2006 10:56

Leach Method: DI Leach

Analyte	Wavelength/ Mass	RL (SU)	
pH		1	

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY - SOLUBLE

Lab Name: TestAmerica Westfield

Job Number: 480-29484-1

SDG Number: \_\_\_\_\_

Matrix: Solid

Instrument ID: pH meter

Method: 9045C

XRL Date: 10/01/2008 09:54

Analyte	Wavelength/ Mass	XRL (SU)	
pH		1	

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY - SOLUBLE

Lab Name: TestAmerica Westfield

Job Number: 480-29484-1

SDG Number: \_\_\_\_\_

Matrix: Solid

Instrument ID: NOEQUIP

Method: SM 2580B

RL Date: 09/11/2012 10:57

Leach Method: DI Leach

Analyte	Wavelength/ Mass	RL (millivolt)	
Oxidation Reduction Potential		1	

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY - SOLUBLE

Lab Name: TestAmerica Westfield

Job Number: 480-29484-1

SDG Number: \_\_\_\_\_

Matrix: Solid

Instrument ID: NOEQUIP

Method: SM 2580B

XRL Date: 09/01/2006 13:08

Analyte	Wavelength/ Mass	XRL (millivolt)	
Oxidation Reduction Potential		1	

12-IN  
PREPARATION LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Prep Method: 3060A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 460-138391/1-A ^10	12/06/2012 12:30	138391	2.50		100
LCSS 460-138391/2-A ^25	12/06/2012 12:30	138391	2.50		100
LCSI 460-138391/3-A ^500	12/06/2012 12:30	138391	2.50		100
480-29484-14	12/06/2012 12:30	138391	2.50		100
480-29484-14 DU	12/06/2012 12:30	138391	2.50		100
480-29484-14 MSS	12/06/2012 12:30	138391	2.50		100
480-29484-14 MSI	12/06/2012 12:30	138391	2.50		100
480-29484-1	12/06/2012 12:30	138391	2.56		100
480-29484-2	12/06/2012 12:30	138391	2.49		100
480-29484-3	12/06/2012 12:30	138391	2.57		100
480-29484-4	12/06/2012 12:30	138391	2.56		100
480-29484-5	12/06/2012 12:30	138391	2.55		100
480-29484-6	12/06/2012 12:30	138391	2.42		100
480-29484-7	12/06/2012 12:30	138391	2.45		100
480-29484-8	12/06/2012 12:30	138391	2.44		100
480-29484-9	12/06/2012 12:30	138391	2.49		100
480-29484-10	12/06/2012 12:30	138391	2.59		100
480-29484-11	12/06/2012 12:30	138391	2.48		100
480-29484-12	12/06/2012 12:30	138391	2.45		100
480-29484-13	12/06/2012 12:30	138391	2.52		100
480-29484-15	12/06/2012 12:30	138391	2.58		100

12-IN  
PREPARATION LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Prep Method: 3060A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 460-140206/1-A ^10	12/14/2012 14:38	140206	2.50		100
LCSS 460-140206/2-A ^25	12/14/2012 14:38	140206	2.50		100
LCSI 460-140206/3-A ^500	12/14/2012 14:38	140206	2.50		100
480-29484-14	12/14/2012 14:38	140206	2.50		100
480-29484-14 DU	12/14/2012 14:38	140206	2.50		100
480-29484-14 MSS	12/14/2012 14:38	140206	2.50		100
480-29484-14 MSI	12/14/2012 14:38	140206	2.50		100
480-29484-1	12/14/2012 14:38	140206	2.43		100
480-29484-2	12/14/2012 14:38	140206	2.45		100
480-29484-3	12/14/2012 14:38	140206	2.56		100
480-29484-4	12/14/2012 14:38	140206	2.53		100
480-29484-5	12/14/2012 14:38	140206	2.55		100
480-29484-6	12/14/2012 14:38	140206	2.49		100
480-29484-7	12/14/2012 14:38	140206	2.46		100
480-29484-8	12/14/2012 14:38	140206	2.46		100
480-29484-9	12/14/2012 14:38	140206	2.50		100
480-29484-10	12/14/2012 14:38	140206	2.53		100
480-29484-11	12/14/2012 14:38	140206	2.46		100
480-29484-12	12/14/2012 14:38	140206	2.43		100
480-29484-13	12/14/2012 14:38	140206	2.52		100
480-29484-15	12/14/2012 14:38	140206	2.59		100

13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Instrument ID: IC Method: 7199

Start Date: 12/12/2012 12:17 End Date: 12/12/2012 21:31

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				C r 6												
ZZZZZZ			12:17													
ZZZZZZ			12:25													
ZZZZZZ			12:33													
ZZZZZZ			12:42													
ZZZZZZ			12:50													
ICV 460-139567/6	1		12:58	X												
ICB 460-139567/7	1		13:06	X												
MB 460-138391/1-A ^10	10	T	13:15	X												
ZZZZZZ			13:23													
ZZZZZZ			13:31													
LCSS 460-138391/2-A ^25	25	T	13:39	X												
ZZZZZZ			13:48													
LCSI 460-138391/3-A ^500	500	T	13:56	X												
480-29484-14	10	T	14:04	X												
ZZZZZZ			14:13													
480-29484-14 DU	10	T	14:21	X												
ZZZZZZ			14:29													
CCV 460-139567/18	1		14:38	X												
CCB 460-139567/19	1		14:46	X												
480-29484-14 MSS	40	T	14:55	X												
ZZZZZZ			15:03													
480-29484-14 MSI	500	T	15:11	X												
ZZZZZZ			15:20													
480-29484-14 PDS	40	T	15:28	X												
ZZZZZZ			15:36													
ZZZZZZ			15:45													
480-29484-1	10	T	15:53	X												
480-29484-2	10	T	16:01	X												
ZZZZZZ			16:10													
CCV 460-139567/30	1		16:18	X												
CCB 460-139567/31	1		16:26	X												
480-29484-3	10	T	16:35	X												
ZZZZZZ			16:43													
ZZZZZZ			16:51													
480-29484-4	10	T	17:00	X												
480-29484-5	10	T	17:08	X												
ZZZZZZ			17:16													
480-29484-6	10	T	17:31	X												
ZZZZZZ			17:40													
ZZZZZZ			17:48													
480-29484-7	10	T	17:56	X												

13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Instrument ID: IC Method: 7199

Start Date: 12/12/2012 12:17 End Date: 12/12/2012 21:31

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				C r 6												
CCV 460-139567/42	1		18:04	X												
CCB 460-139567/43	1		18:12	X												
480-29484-8	10	T	18:21	X												
ZZZZZZ			18:29													
480-29484-9	10	T	18:37	X												
ZZZZZZ			18:45													
ZZZZZZ			18:53													
480-29484-10	10	T	19:02	X												
ZZZZZZ			19:10													
480-29484-11	10	T	19:18	X												
480-29484-12	10	T	19:26	X												
ZZZZZZ			19:35													
CCV 460-139567/54	1		19:43	X												
CCB 460-139567/55	1		19:51	X												
480-29484-13	10	T	19:59	X												
ZZZZZZ			20:08													
480-29484-15	10	T	20:16	X												
ZZZZZZ			20:24													
ZZZZZZ			20:33													
ZZZZZZ			20:41													
ZZZZZZ			20:50													
ZZZZZZ			20:58													
ZZZZZZ			21:06													
ZZZZZZ			21:15													
CCV 460-139567/66	1		21:23	X												
CCB 460-139567/67	1		21:31	X												

Prep Types

T = Total/NA

13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Instrument ID: IC Method: 7199

Start Date: 12/17/2012 15:19 End Date: 12/18/2012 01:48

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				C r 6												
ZZZZZZ			15:19													
ZZZZZZ			15:27													
ZZZZZZ			16:37													
ZZZZZZ			16:46													
ZZZZZZ			16:54													
ICV 460-140322/6	1		17:02	X												
ICB 460-140322/7	1		17:50	X												
MB 460-140206/1-A ^10	10	T	17:58	X												
ZZZZZZ			18:07													
LCSS 460-140206/2-A ^25	25	T	18:15	X												
ZZZZZZ			18:23													
ZZZZZZ			18:31													
LCSI 460-140206/3-A ^500	500	T	18:40	X												
480-29484-14	10	T	18:48	X												
ZZZZZZ			18:56													
ZZZZZZ			19:04													
480-29484-14 DU	10	T	19:13	X												
CCV 460-140322/18	1		19:21	X												
CCB 460-140322/19	1		19:29	X												
480-29484-14 MSS	40	T	19:38	X												
ZZZZZZ			19:46													
ZZZZZZ			19:54													
480-29484-14 MSI	500	T	20:03	X												
480-29484-14 PDS	40	T	20:11	X												
ZZZZZZ			20:19													
ZZZZZZ			20:28													
480-29484-1	10	T	20:36	X												
ZZZZZZ			20:44													
480-29484-2	10	T	20:52	X												
CCV 460-140322/30	1		21:01	X												
CCB 460-140322/31	1		21:09	X												
480-29484-3	10	T	21:17	X												
ZZZZZZ			21:26													
ZZZZZZ			21:34													
480-29484-4	10	T	21:42	X												
480-29484-5	10	T	21:50	X												
ZZZZZZ			21:58													
ZZZZZZ			22:07													
480-29484-6	10	T	22:15	X												
ZZZZZZ			22:23													
480-29484-7	10	T	22:31	X												

13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Instrument ID: IC Method: 7199

Start Date: 12/17/2012 15:19 End Date: 12/18/2012 01:48

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				C r 6												
CCV 460-140322/42	1		22:39	X												
CCB 460-140322/43	1		22:47	X												
480-29484-8	10	T	22:56	X												
ZZZZZZ			23:04													
480-29484-9	10	T	23:12	X												
ZZZZZZ			23:20													
480-29484-10	10	T	23:28	X												
ZZZZZZ			23:36													
480-29484-11	10	T	23:45	X												
ZZZZZZ			23:53													
480-29484-12	10	T	00:01	X												
ZZZZZZ			00:09													
CCV 460-140322/54	1		00:17	X												
CCB 460-140322/55	1		00:26	X												
480-29484-13	10	T	00:34	X												
ZZZZZZ			00:42													
480-29484-15	10	T	00:50	X												
ZZZZZZ			00:58													
ZZZZZZ			01:07													
ZZZZZZ			01:15													
ZZZZZZ			01:23													
ZZZZZZ			01:31													
CCV 460-140322/64	1		01:40	X												
CCB 460-140322/65	1		01:48	X												

Prep Types

T = Total/NA

13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Instrument ID: NOEQUIP Method: Moisture

Start Date: 12/09/2012 11:55 End Date: 12/09/2012 11:55

Lab Sample ID	D / F	T Y p e	Time	Analytes									
				% S o l	M o i s t								
ZZZZZZ			11:55										
480-29484-1	1	T	11:55	X	X								
480-29484-2	1	T	11:55	X	X								
480-29484-3	1	T	11:55	X	X								
480-29484-4	1	T	11:55	X	X								
480-29484-5	1	T	11:55	X	X								
480-29484-6	1	T	11:55	X	X								
480-29484-7	1	T	11:55	X	X								
480-29484-8	1	T	11:55	X	X								
480-29484-9	1	T	11:55	X	X								
480-29484-10	1	T	11:55	X	X								
480-29484-11	1	T	11:55	X	X								
480-29484-12	1	T	11:55	X	X								
480-29484-13	1	T	11:55	X	X								
480-29484-14	1	T	11:55	X	X								
480-29484-14 MS	1	T	11:55	X	X								
480-29484-14 MSD	1	T	11:55	X	X								
480-29484-15	1	T	11:55	X	X								
ZZZZZZ			11:55										
ZZZZZZ			11:55										
ZZZZZZ			11:55										

Prep Types

T = Total/NA

13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Instrument ID: pH meter Method: 9045C

Start Date: 12/05/2012 09:15 End Date: 12/05/2012 11:13

Lab Sample ID	D / F	T Y p e	Time	Analytes											
				p H											
LCS 360-97353/1-A	1	S	09:15	X											
ZZZZZZ			09:15												
ZZZZZZ			09:15												
ZZZZZZ			09:15												
ZZZZZZ			09:15												
ZZZZZZ			09:15												
ZZZZZZ			09:15												
ZZZZZZ			09:15												
ZZZZZZ			09:15												
ZZZZZZ			09:15												
ZZZZZZ			09:15												
ZZZZZZ			09:15												
480-29484-1	1	S	09:34	X											
480-29484-2	1	S	09:45	X											
480-29484-2 DU	1	S	09:52	X											
480-29484-3	1	S	09:57	X											
480-29484-4	1	S	10:02	X											
480-29484-5	1	S	10:10	X											
480-29484-6	1	S	10:19	X											
480-29484-7	1	S	10:25	X											
480-29484-8	1	S	10:31	X											
480-29484-9	1	S	10:38	X											
CCV 360-97355/12	1		10:43	X											
480-29484-10	1	S	10:46	X											
480-29484-11	1	S	10:52	X											
480-29484-12	1	S	10:56	X											
480-29484-13	1	S	11:00	X											
480-29484-14	1	S	11:03	X											
480-29484-15	1	S	11:07	X											
CCV 360-97355/19	1		11:13	X											

Prep Types

S = Soluble

13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Instrument ID: NOEQUIP Method: SM 2580B

Start Date: 12/05/2012 09:19 End Date: 12/05/2012 11:07

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				O	R	P										
LCS 360-97354/1-A	1	S	09:19	X												
480-29484-1	1	S	09:34	X												
480-29484-2	1	S	09:45	X												
480-29484-2 DU	1	S	09:52	X												
480-29484-3	1	S	09:57	X												
480-29484-4	1	S	10:02	X												
480-29484-5	1	S	10:10	X												
480-29484-6	1	S	10:19	X												
480-29484-7	1	S	10:25	X												
480-29484-8	1	S	10:31	X												
480-29484-9	1	S	10:38	X												
480-29484-10	1	S	10:46	X												
480-29484-11	1	S	10:52	X												
480-29484-12	1	S	10:56	X												
480-29484-13	1	S	11:00	X												
480-29484-14	1	S	11:03	X												
480-29484-15	1	S	11:07	X												

Prep Types

S = Soluble

Report date: 12/13/2012 9:32:04 AM  
Printed by: TestAmerica - Edison

Ident: 0.0  
Analysis from: 12/12/2012 12:17:28 PM  
File: wc121217.chw Last save: 12/12/2012 12:20:59 PM

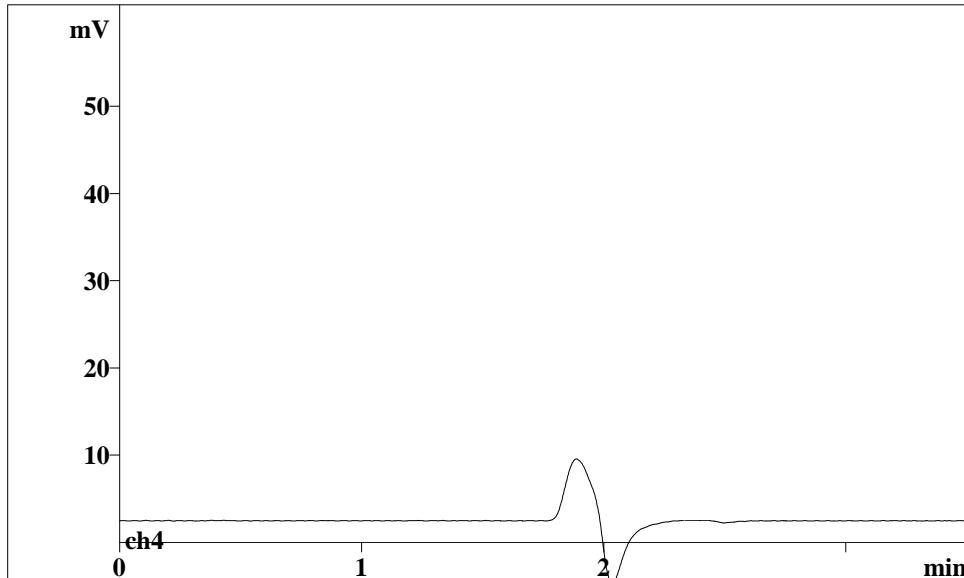
Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:02:  
Run operator: TestAmerica - Edison  
Analysis number: 40056

SAMPLE: 100ul loop  
:  
Vial number: 1  
Volume: 1.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000

COLUMN: A Supp 5-150  
Size: 4.6 x 150 mm  
Number:  
Part.size: 7.0  $\mu$ m

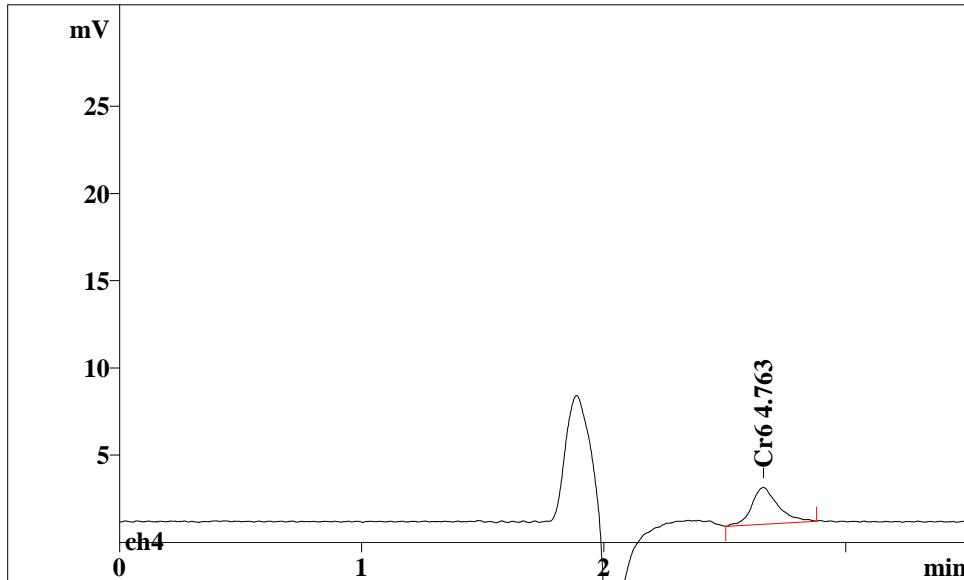
ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min  
Temperature: 25.0°C  
Pressure: 8.9 MPa



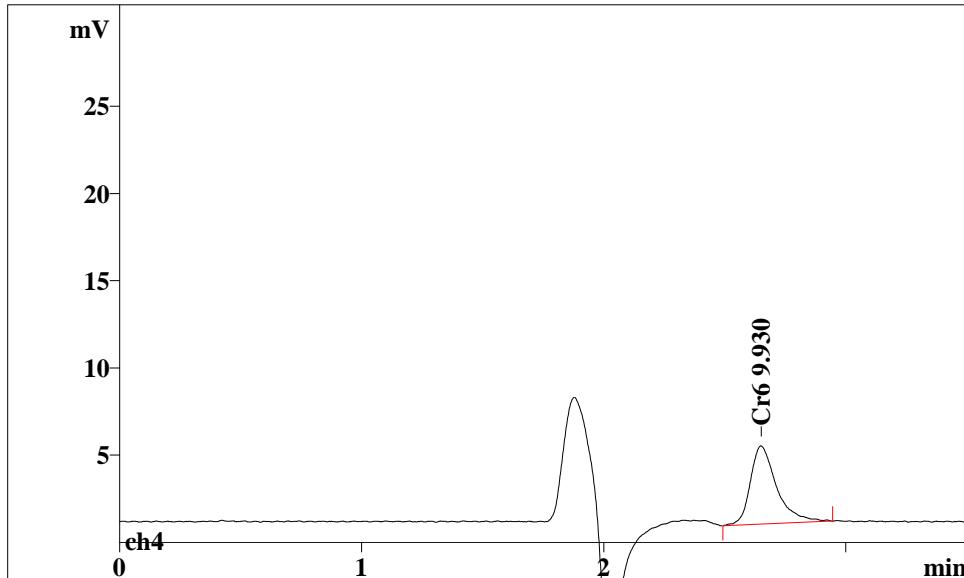
No peaks

Report date: 12/13/2012 9:32:17 AM  
 Printed by: TestAmerica - Edison  
 Ident: 5.0  
 Analysis from: 12/12/2012 12:25:41 PM  
 File: wc121225.chw Last save: 12/12/2012 12:29:11 PM  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:02:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40057  
 SAMPLE: 100ul loop  
 :  
 Vial number: 2  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.0 MPa



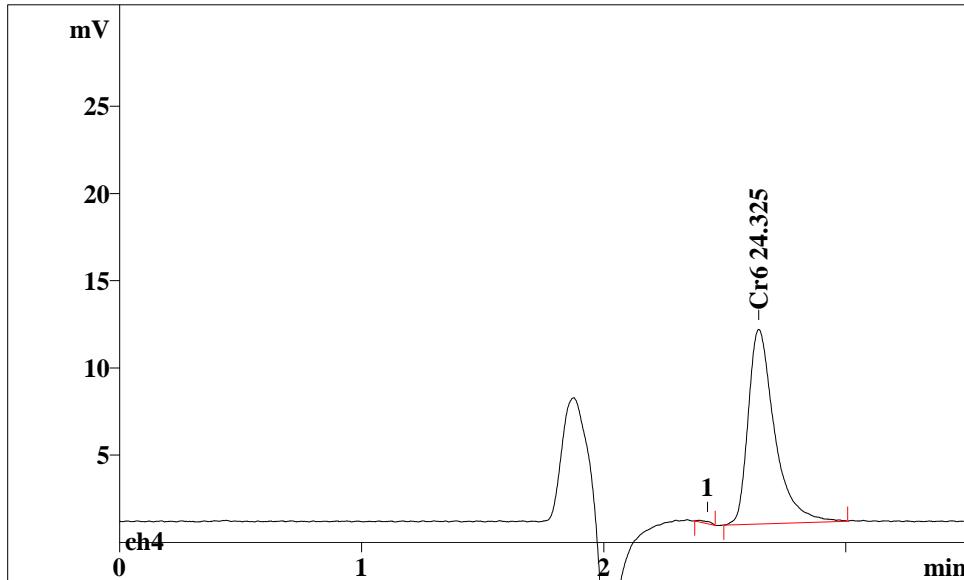
No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;  
 ; min; min; mV; %; mV\*sec; %; ; n,n+1;  
 1; 2.66; 0.109; 2.10; 99.85; 15.991; 100.00; 0.00; 0.00; 27

Report date: 12/13/2012 9:32:20 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 10.0  
 Analysis from: 12/12/2012 12:33:53 PM  
 File: wc121233.chw Last save: 12/12/2012 12:37:23 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:29:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40058  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 3  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;  
 ; min; min; mV; %; mV\*sec; %; ; n,n+1;  
 1; 2.65; 0.108; 4.48; 99.88; 33.794; 100.00; 0.00; 0.00; 27

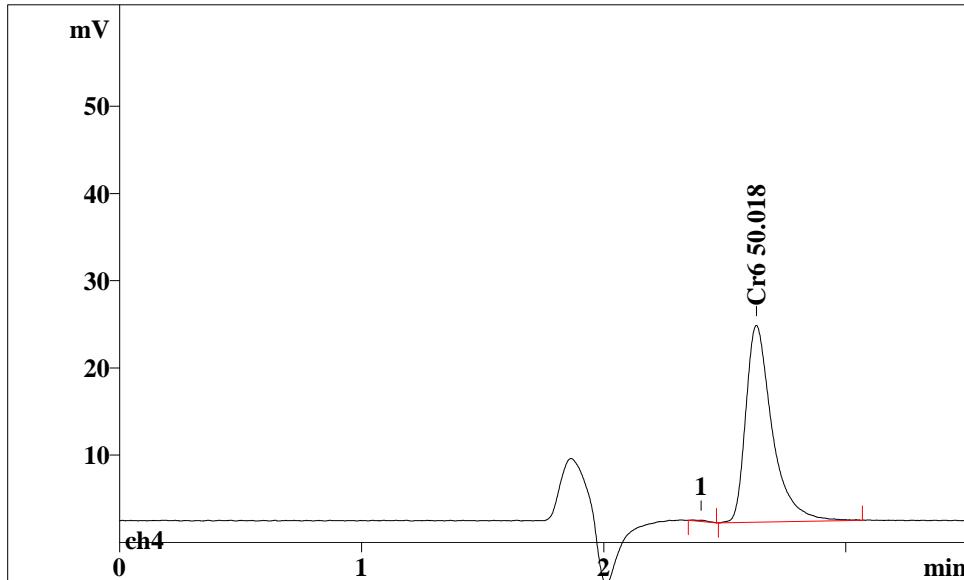
Report date: 12/13/2012 9:32:24 AM  
 Printed by: TestAmerica - Edison  
 Ident: 25.0  
 Analysis from: 12/12/2012 12:42:05 PM  
 File: wc121242.chw Last save: 12/12/2012 12:45:35 PM  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:37:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40059  
 SAMPLE: 100ul loop  
 :  
 Vial number: 4  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K'; Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;
1;	2.64;	0.109;	11.17;	98.81;	84.727;	99.50;	n,n+1;
							0.00;
							0.00;

27

Report date: 12/13/2012 9:32:27 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 50.0  
 Analysis from: 12/12/2012 12:50:20 PM  
 File: wc121250.chw Last save: 12/12/2012 12:53:51 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:45:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40060  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 5  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa

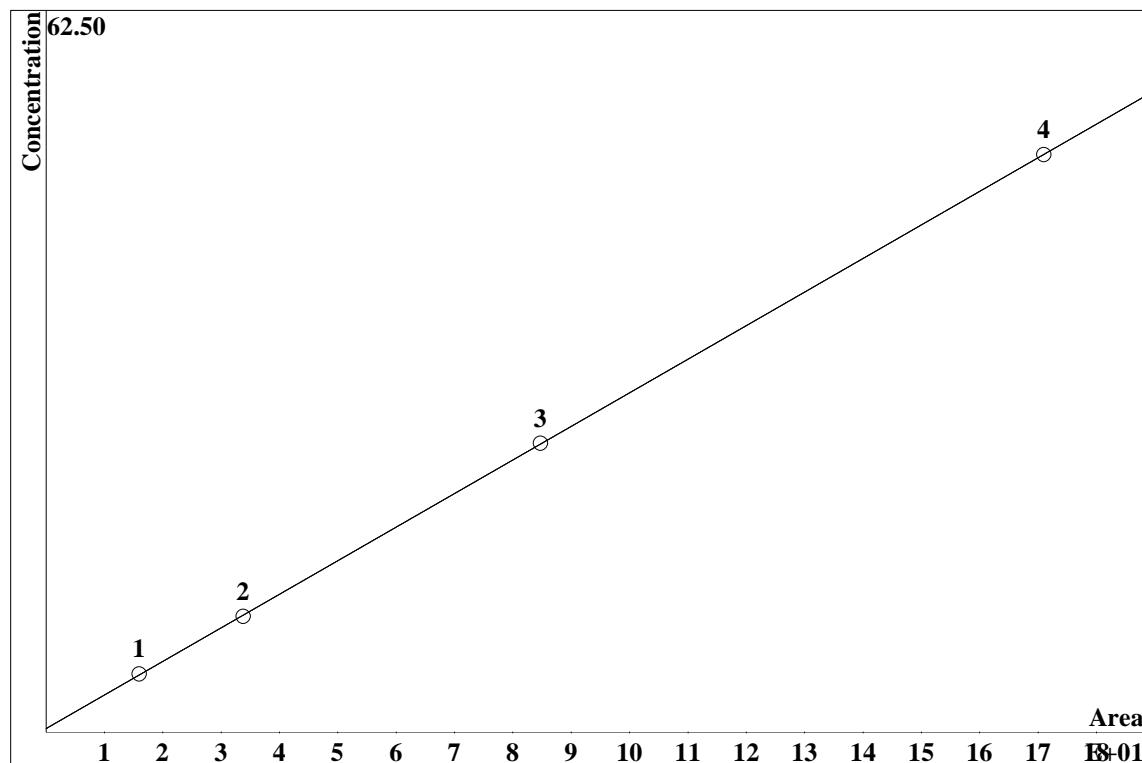


No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.63;	0.109;	22.57;	99.38;	170.986;	99.69;	0.00;	0.00;

27

## CALIBRATION OF COMPONENT Cr6

Method: stl\_hexchrome\_soil.mtw  
 Equation:  $Q = 0.290855 \cdot A + 0.286177$   
 RSD: 0.472 %  
 Correlation coefficient: 0.999991



K3 = 0      K2 = 0      K1 = 0.290855      K0 = 0.286177

Base:      Area

Ref.channel: ch4

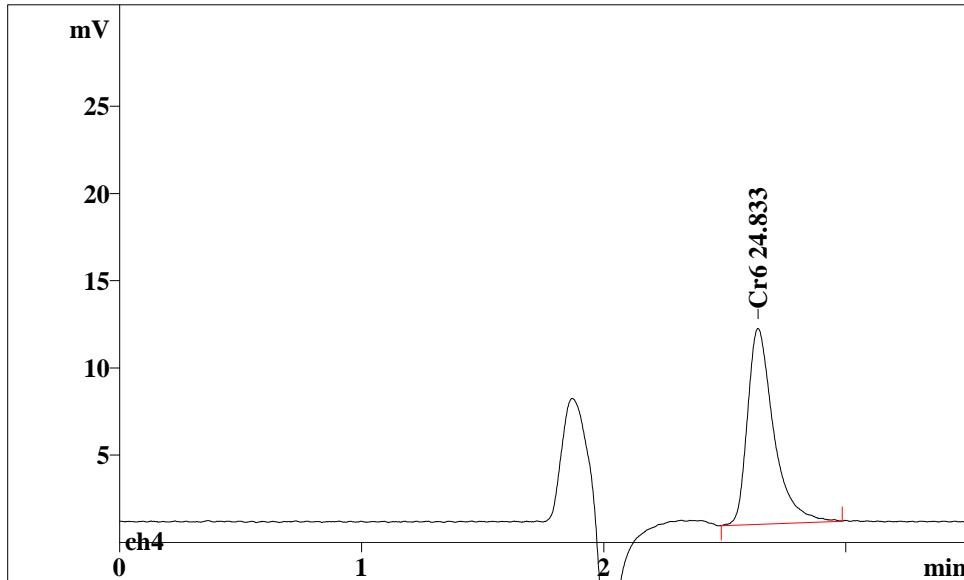
ISTD:

Formula:      Linear

Weight:      1

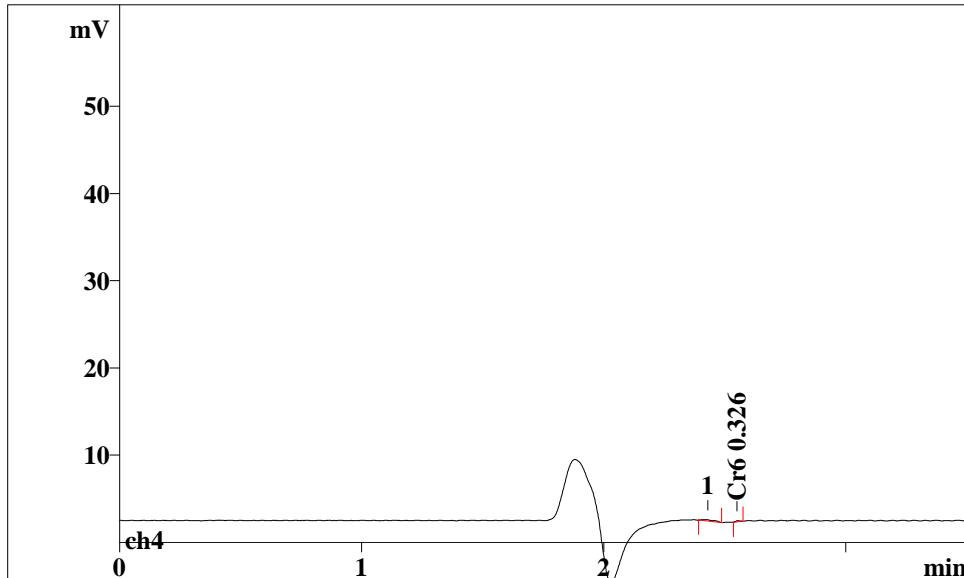
Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1;	2.106;	15.99;	5;	1;	2.779;	Yes;	WC121225.CHW
2;	4.484;	33.79;	10;	1;	2.779;	Yes;	WC121233.CHW
3;	11.17;	84.73;	25;	1;	2.779;	Yes;	WC121242.CHW
4;	22.56;	171;	50;	1;	2.779;	Yes;	WC121250.CHW

Report date: 12/13/2012 9:32:40 AM  
 Printed by: TestAmerica - Edison  
 Ident: ICV  
 Analysis from: 12/12/2012 12:58:35 PM  
 File: wc121258.chw Last save: 12/12/2012 1:02:05 PM  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40061  
 SAMPLE: 100ul loop  
 :  
 Vial number: 6  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



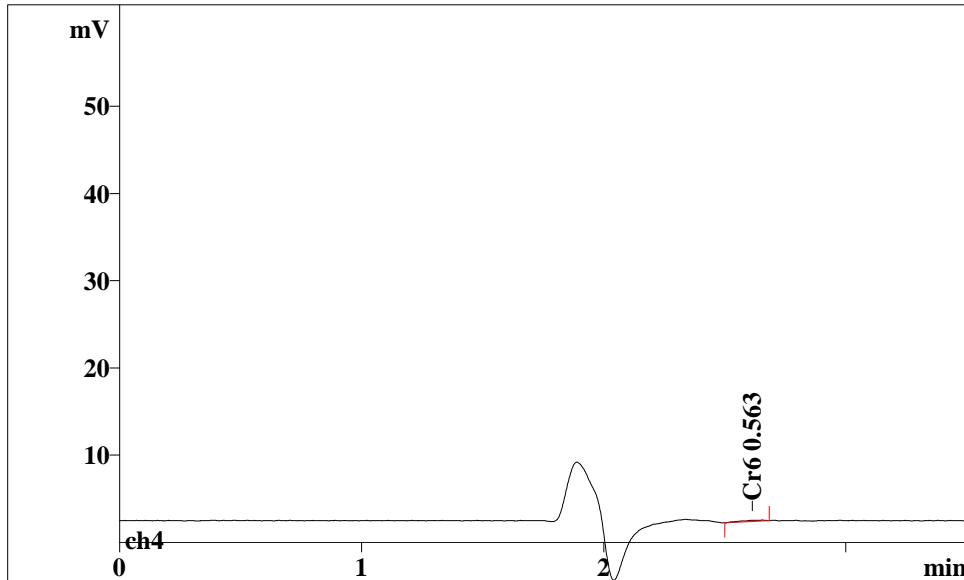
No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;  
 ; min; min; mV; %; mV\*sec; %; ; n,n+1;  
 1; 2.64; 0.109; 11.23; 100.01; 84.395; 100.00; 0.00; 0.00; 27

Report date: 12/13/2012 9:32:43 AM  
 Printed by: TestAmerica - Edison  
 Ident: ICB  
 Analysis from: 12/12/2012 1:06:51 PM  
 File: wc121306.chw Last save: 12/12/2012 1:10:21 PM  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40062  
 SAMPLE: 100ul loop  
 :  
 Vial number: 7  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.55;	0.016;	0.13;	43.91;	0.136;	18.66;	0.00;	0.00; 1232

Report date: 12/13/2012 9:32:46 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: MB 460-138391/1-A@10  
 Analysis from: 12/12/2012 1:15:06 PM  
 File: wc121315.chw Last save: 12/12/2012 1:18:37 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40063  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 8  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 8.8 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.61; 0.143; 0.13; 97.28; 0.951; 100.00; 0.00; 0.00; 32
  
```

Report date: 12/13/2012 9:32:50 AM  
Printed by: TestAmerica - Edison

Ident: MB 460-138391/1-A@10  
Analysis from: 12/12/2012 1:23:23 PM  
File: wc121323.chw Last save: 12/12/2012 1:26:54 PM

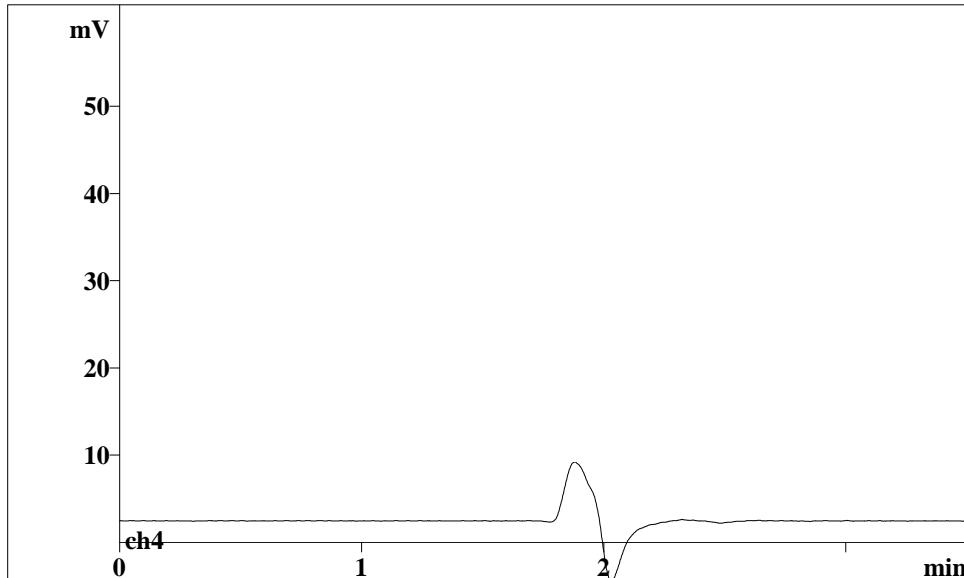
Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
Run operator: TestAmerica - Edison  
Analysis number: 40064

SAMPLE: 100ul loop  
:  
Vial number: 9  
Volume: 1.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000

COLUMN: A Supp 5-150  
Size: 4.6 x 150 mm  
Number:  
Part.size: 7.0  $\mu$ m

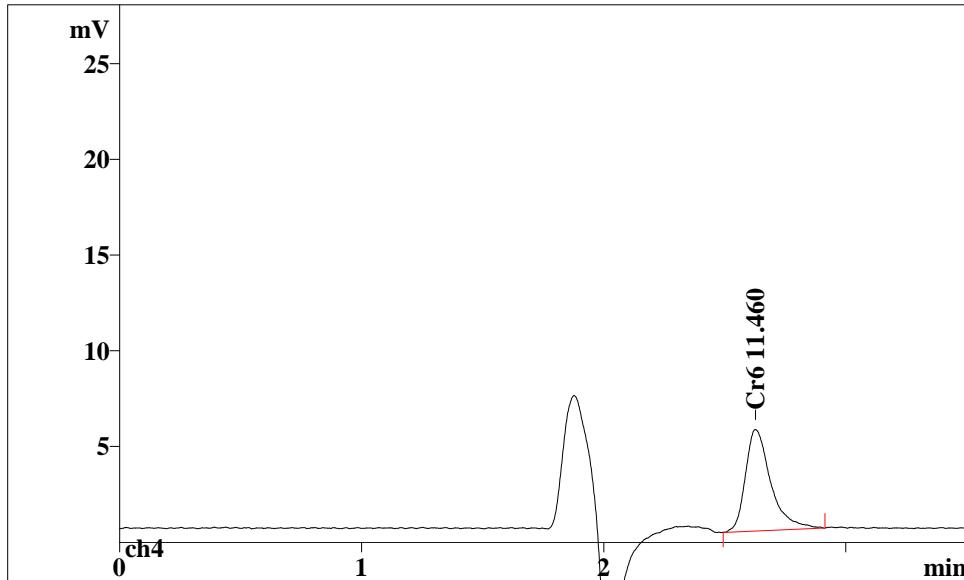
ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min  
Temperature: 25.0°C  
Pressure: 9.0 MPa



No peaks

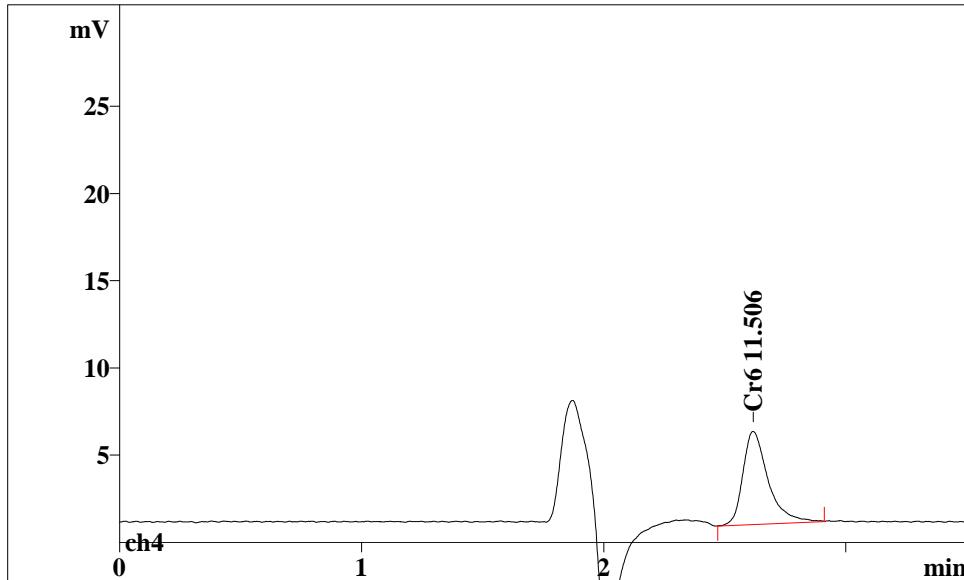
Report date: 12/13/2012 9:32:53 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: LCSS 460-138391/2-A@25  
 Analysis from: 12/12/2012 1:31:41 PM  
 File: wc121331.chw Last save: 12/12/2012 1:35:12 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40065  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 10  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.0 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.63;	0.104;	5.30;	99.87;	38.418;	100.00;	0.00;	0.00;

29

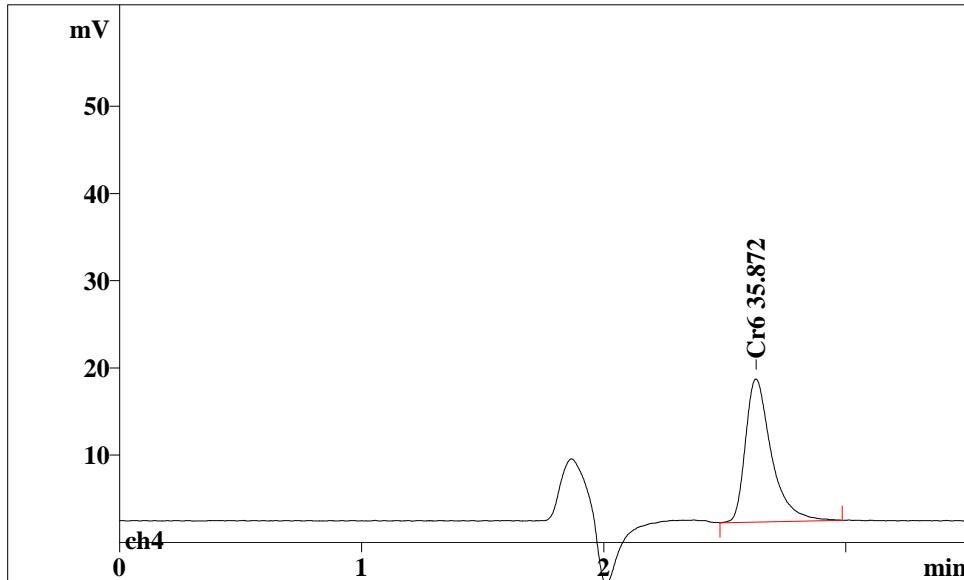
Report date: 12/13/2012 9:32:56 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: LCSS 460-138391/2-A@25  
 Analysis from: 12/12/2012 1:39:58 PM  
 File: wc121339.chw Last save: 12/12/2012 1:43:28 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40066  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 11  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.62; 0.104; 5.34; 100.00; 38.574; 100.00; 0.00; 0.00; 29
  
```

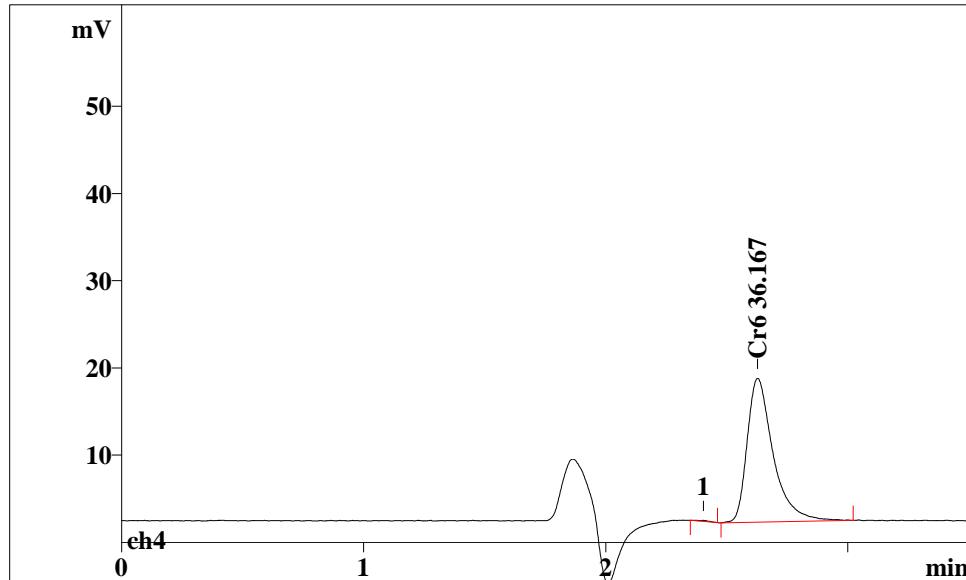
Report date: 12/13/2012 9:32:59 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: LCSI 460-138391/3-A@500  
 Analysis from: 12/12/2012 1:48:15 PM  
 File: wc121348.chw Last save: 12/12/2012 1:51:45 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40067  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 12  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.63; 0.108; 16.41; 100.03; 122.349; 100.00; 0.00; 0.00; 28
  
```

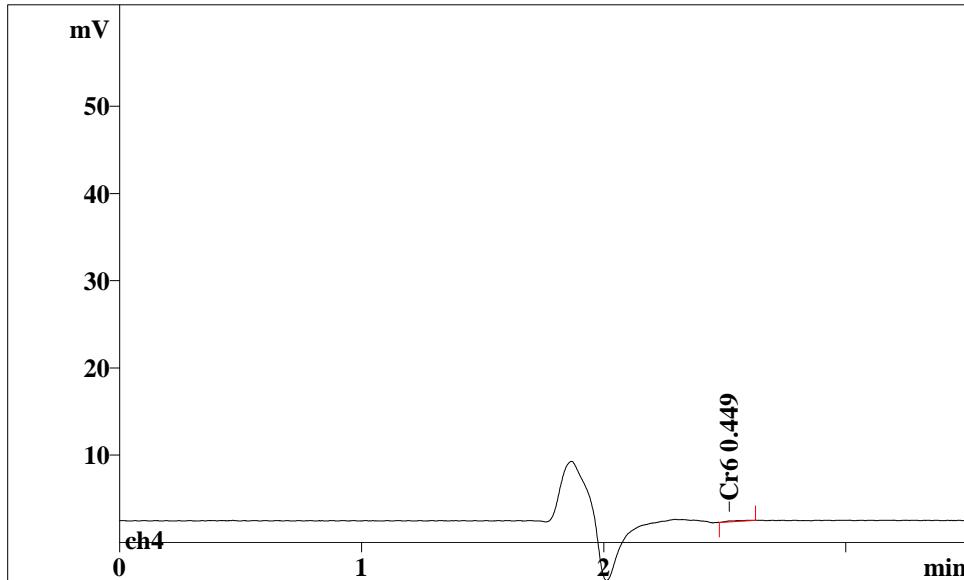
Report date: 12/13/2012 9:33:03 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: LCSI 460-138391/3-A@500  
 Analysis from: 12/12/2012 1:56:35 PM  
 File: wc121356.chw Last save: 12/12/2012 2:00:05 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40068  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 13  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
	min;	min;	mV;	%;	mV*sec;	%;		n,n+1;
1;	2.63;	0.108;	16.51;	99.25;	123.363;	99.67;	0.00;	0.00;

27

Report date: 12/13/2012 9:33:07 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-14-A@10  
 Analysis from: 12/12/2012 2:04:55 PM  
 File: wc121404.chw Last save: 12/12/2012 2:08:26 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40069  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 14  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.52;	0.095;	0.11;	98.57;	0.559;	100.00;	0.00;	0.00;

57

Report date: 12/13/2012 9:33:10 AM  
Printed by: TestAmerica - Edison

Ident: 480-29484-B-14-A@10  
Analysis from: 12/12/2012 2:13:15 PM  
File: wc121413.chw Last save: 12/12/2012 2:16:46 PM

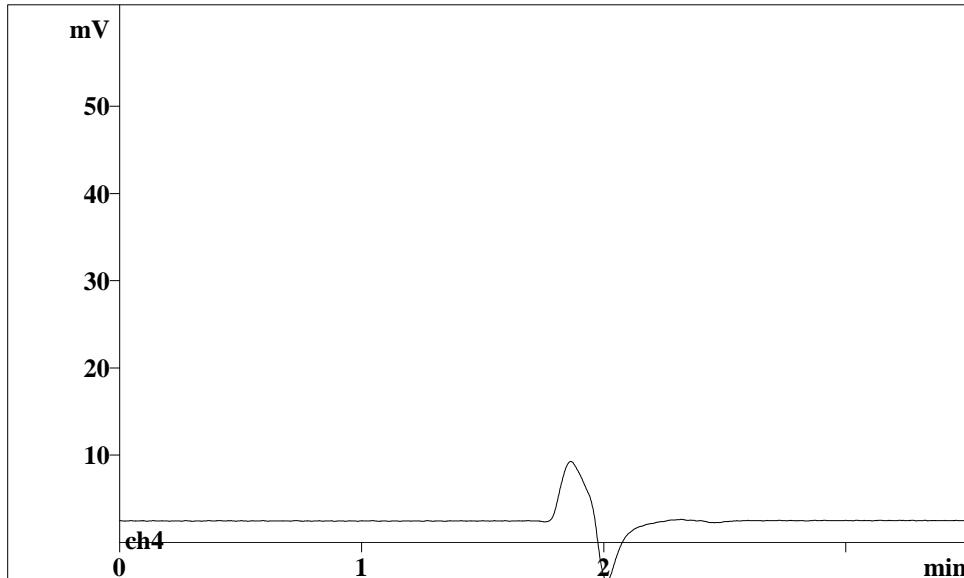
Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
Run operator: TestAmerica - Edison  
Analysis number: 40070

SAMPLE: 100ul loop  
:  
Vial number: 15  
Volume: 1.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000

COLUMN: A Supp 5-150  
Size: 4.6 x 150 mm  
Number:  
Part.size: 7.0  $\mu$ m

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min  
Temperature: 25.0°C  
Pressure: 8.9 MPa



No peaks

Report date: 12/13/2012 9:33:13 AM  
Printed by: TestAmerica - Edison

Ident: 480-29484-B-14-B DU@10  
Analysis from: 12/12/2012 2:21:36 PM  
File: wc121421.chw Last save: 12/12/2012 2:25:06 PM

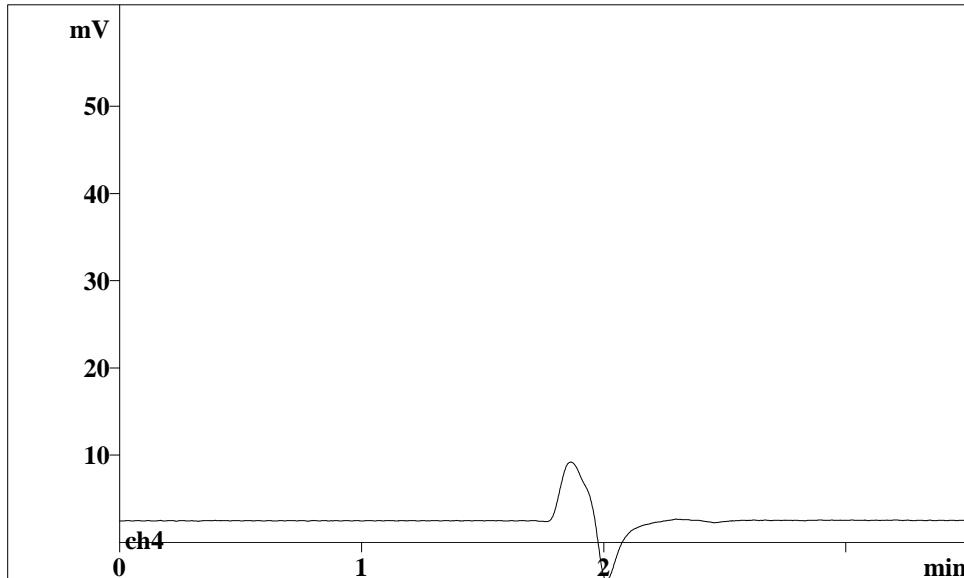
Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
Run operator: TestAmerica - Edison  
Analysis number: 40071

SAMPLE: 100ul loop  
:  
Vial number: 16  
Volume: 1.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000

COLUMN: A Supp 5-150  
Size: 4.6 x 150 mm  
Number:  
Part.size: 7.0  $\mu$ m

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min  
Temperature: 25.0°C  
Pressure: 9.1 MPa



No peaks

Report date: 12/13/2012 9:33:17 AM  
Printed by: TestAmerica - Edison

Ident: 480-29484-B-14-B DU@10  
Analysis from: 12/12/2012 2:29:57 PM  
File: wc121429.chw Last save: 12/12/2012 2:33:27 PM

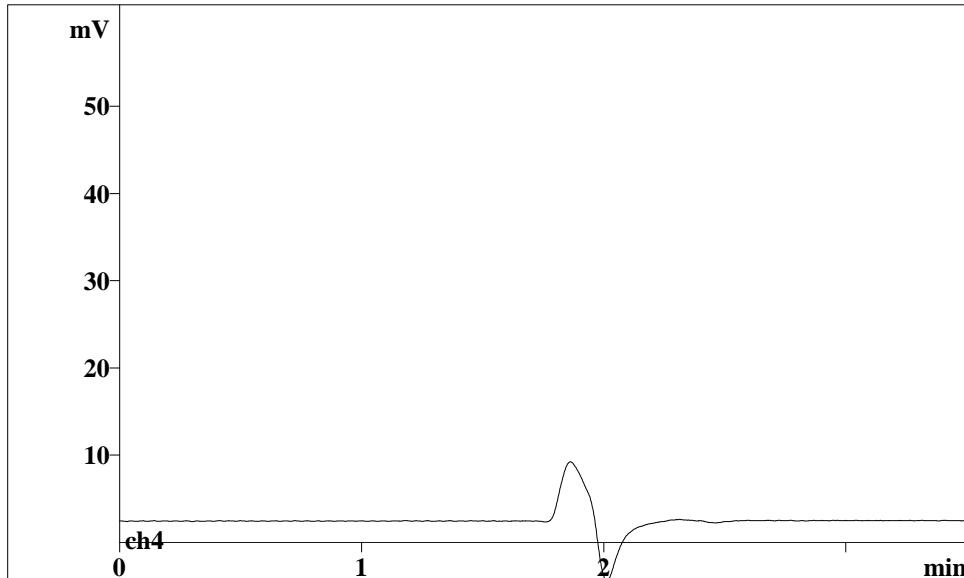
Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
Run operator: TestAmerica - Edison  
Analysis number: 40072

SAMPLE: 100ul loop  
:  
Vial number: 17  
Volume: 1.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000

COLUMN: A Supp 5-150  
Size: 4.6 x 150 mm  
Number:  
Part.size: 7.0  $\mu$ m

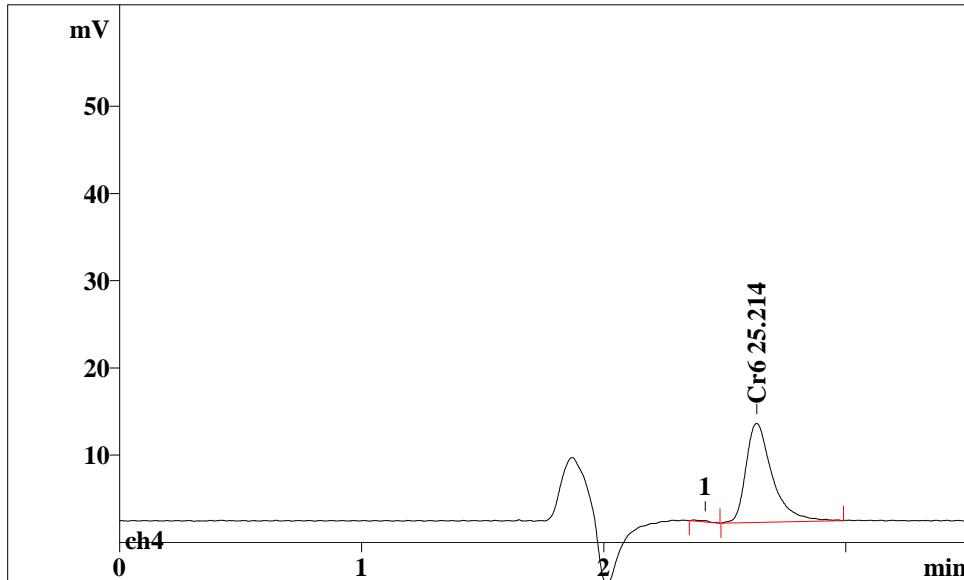
ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min  
Temperature: 25.0°C  
Pressure: 8.9 MPa



No peaks

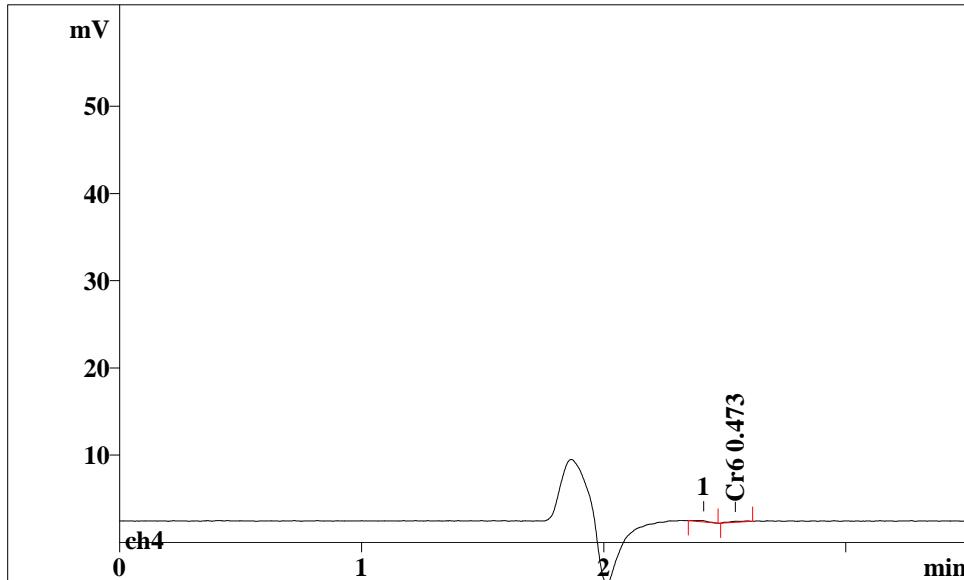
Report date: 12/13/2012 9:33:20 AM  
 Printed by: TestAmerica - Edison  
 Ident: CCV  
 Analysis from: 12/12/2012 2:38:18 PM  
 File: wc121438.chw Last save: 12/12/2012 2:41:48 PM  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40073  
 SAMPLE: 100ul loop  
 :  
 Vial number: 18  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.63;	0.109;	11.35;	98.60;	85.705;	99.31;	0.00;	0.00;

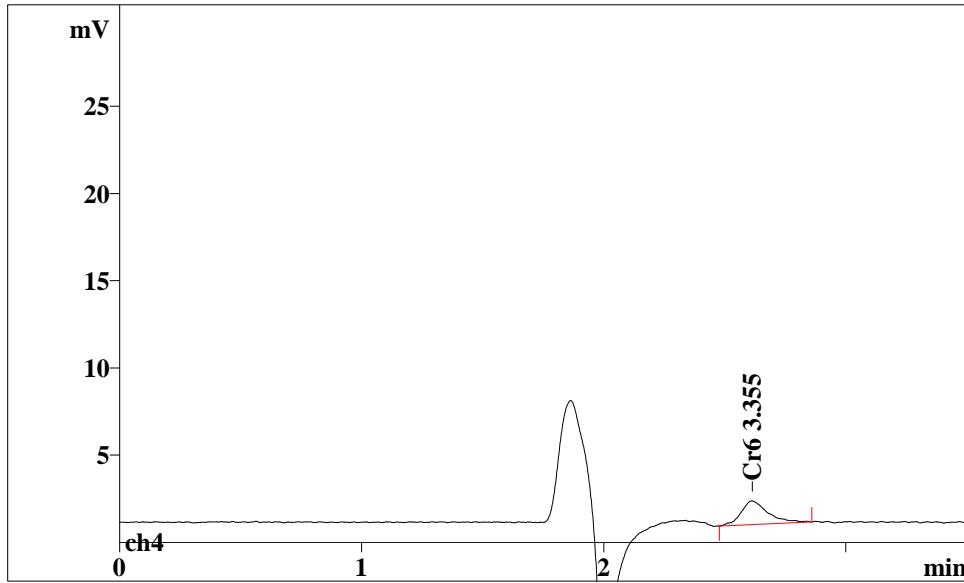
27

Report date: 12/13/2012 9:33:23 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: CCB  
 Analysis from: 12/12/2012 2:46:41 PM  
 File: wc121446.chw Last save: 12/12/2012 2:50:11 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40074  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 19  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
	min;	min;	mV;	%;	mV*sec;	%;		n,n+1;
1;	2.54;	0.107;	0.13;	45.42;	0.641;	56.17;	0.00;	0.00; 63

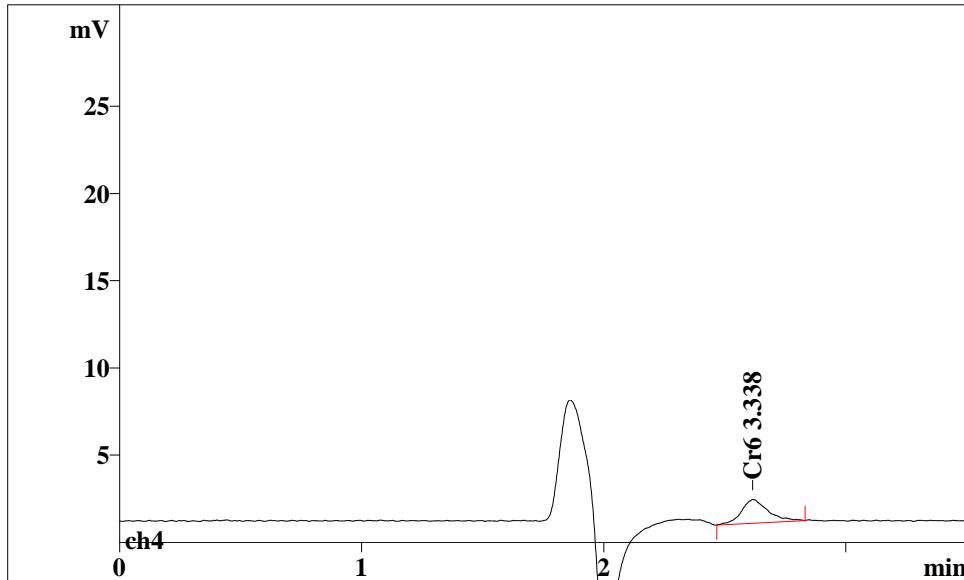
Report date: 12/13/2012 9:33:28 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-14-C MSS@40  
 Analysis from: 12/12/2012 2:55:04 PM  
 File: wc121455.chw Last save: 12/12/2012 2:58:35 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40075  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 20  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



```

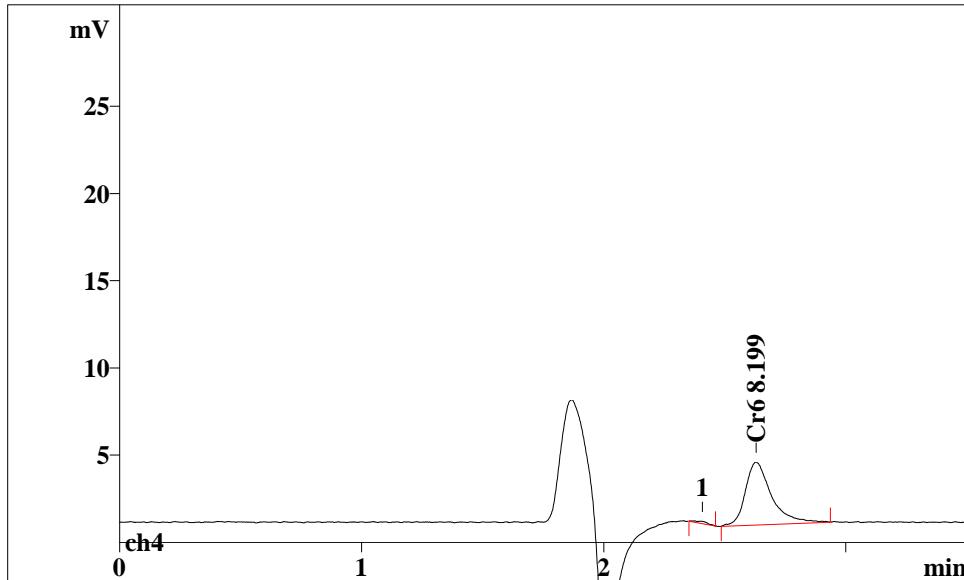
No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.61; 0.109; 1.36; 99.98; 10.552; 100.00; 0.00; 0.00; 25
  
```

Report date: 12/13/2012 9:33:32 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-14-C MSS@40  
 Analysis from: 12/12/2012 3:03:25 PM  
 File: wc121503.chw Last save: 12/12/2012 3:06:55 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40076  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 21  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 8.9 MPa



No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;  
 ; min; min; mV; %; mV\*sec; %; ; n,n+1;  
 1; 2.62; 0.111; 1.36; 99.74; 10.492; 100.00; 0.00; 0.00; 26

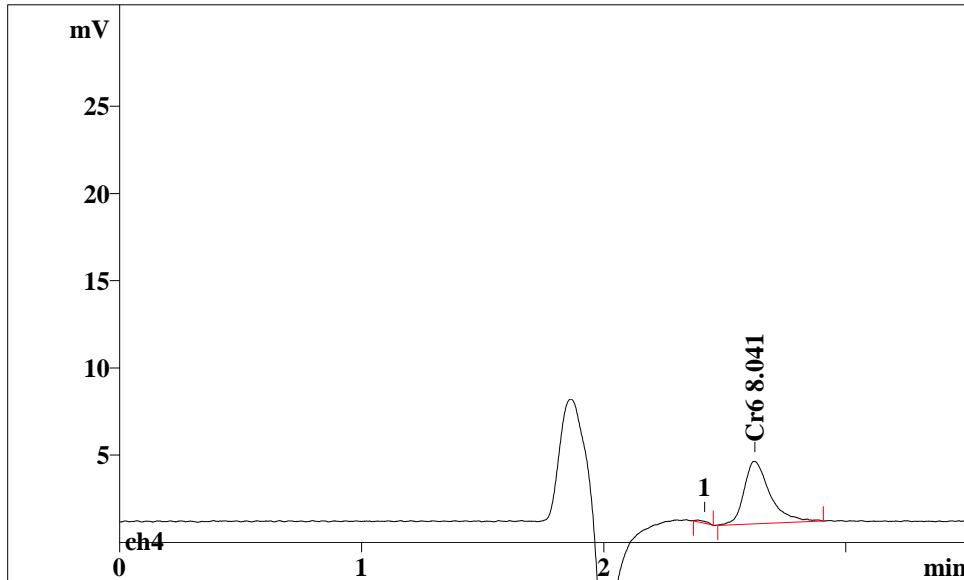
Report date: 12/13/2012 9:33:37 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-14-D MSI@500  
 Analysis from: 12/12/2012 3:11:45 PM  
 File: wc121511.chw Last save: 12/12/2012 3:15:15 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40077  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 22  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.63;	0.106;	3.61;	96.12;	27.206;	98.30;	0.00;	0.00;

27

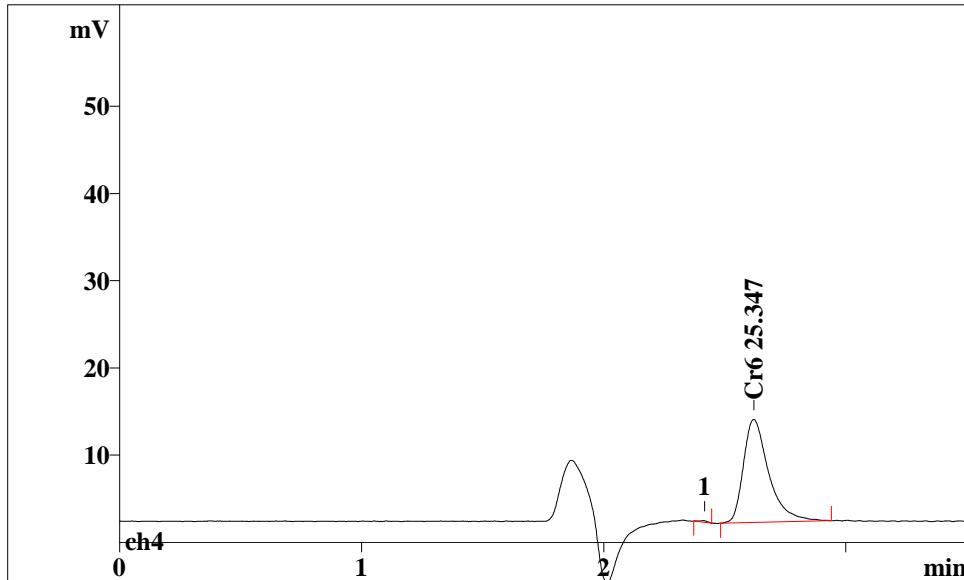
Report date: 12/13/2012 9:33:40 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-14-D MSI@500  
 Analysis from: 12/12/2012 3:20:07 PM  
 File: wc121520.chw Last save: 12/12/2012 3:23:37 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40078  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 23  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.62;	0.106;	3.59;	96.80;	26.662;	98.54;	0.00;	0.00;

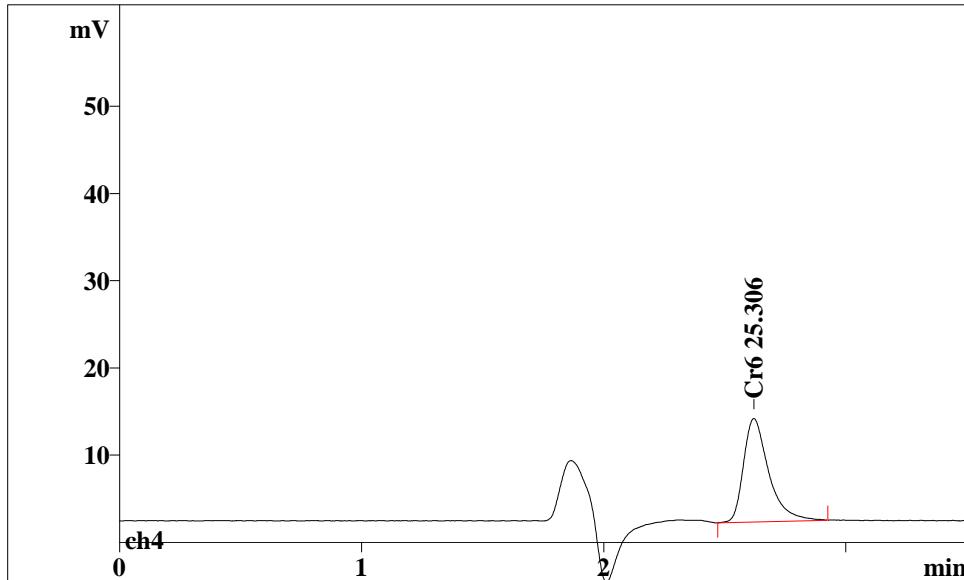
28

Report date: 12/13/2012 9:33:44 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-14-A PDS@40  
 Analysis from: 12/12/2012 3:28:30 PM  
 File: wc121528.chw Last save: 12/12/2012 3:32:00 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40079  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 24  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.0 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K'; Resolution;
	min;	min;	mV;	%;	mV*sec;	%;	;
1;	2.62;	0.106;	11.83;	98.47;	86.164;	99.53;	n,n+1;
						0.00;	0.00;
							29

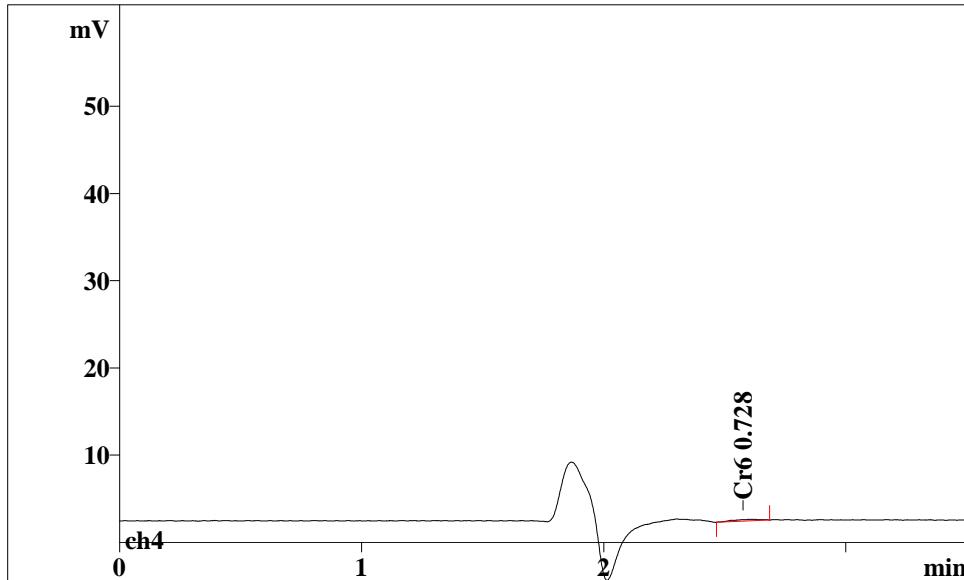
Report date: 12/13/2012 9:33:48 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-14-A PDS@40  
 Analysis from: 12/12/2012 3:36:53 PM  
 File: wc121536.chw Last save: 12/12/2012 3:40:23 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40080  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 25  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.62;	0.106;	11.87;	99.99;	86.021;	100.00;	0.00;	0.00;

29

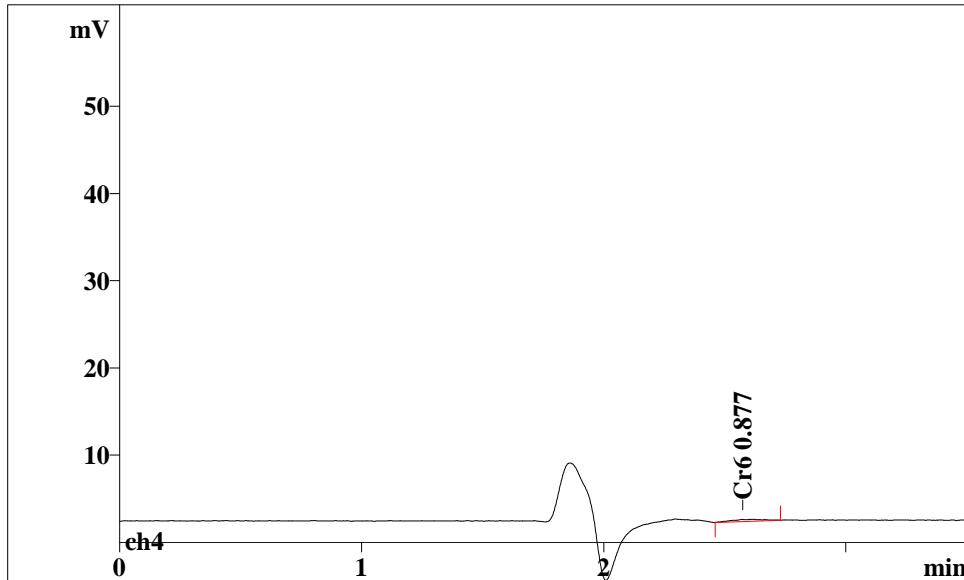
Report date: 12/13/2012 9:33:51 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-1-A@10  
 Analysis from: 12/12/2012 3:45:15 PM  
 File: wc121545.chw Last save: 12/12/2012 3:48:45 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40081  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 26  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.0 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.57;	0.138;	0.18;	98.23;	1.519;	100.00;	0.00;	0.00;

22

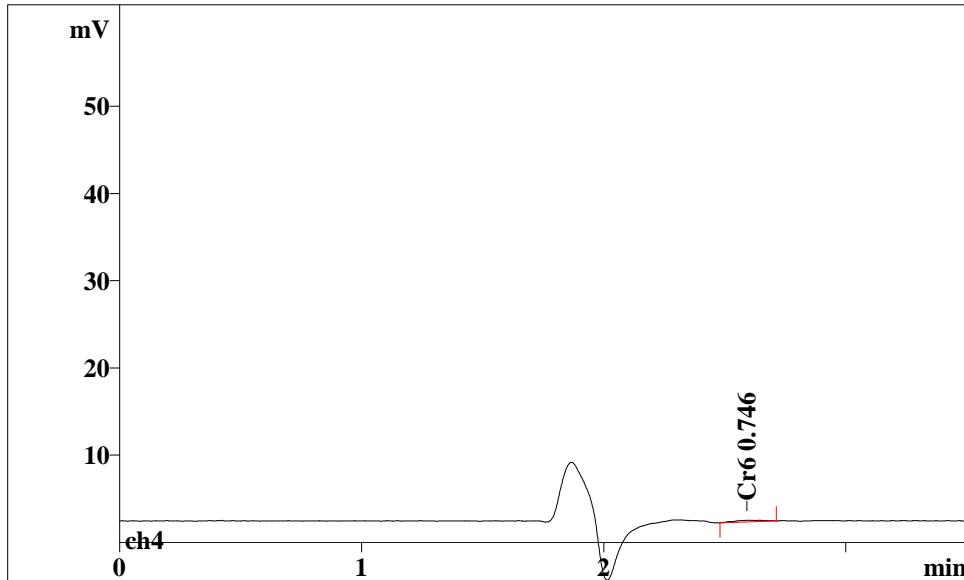
Report date: 12/13/2012 9:33:54 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-1-A@10  
 Analysis from: 12/12/2012 3:53:36 PM  
 File: wc121553.chw Last save: 12/12/2012 3:57:07 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40082  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 27  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.0 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.57;	0.137;	0.24;	98.02;	2.032;	100.00;	0.00;	0.00;

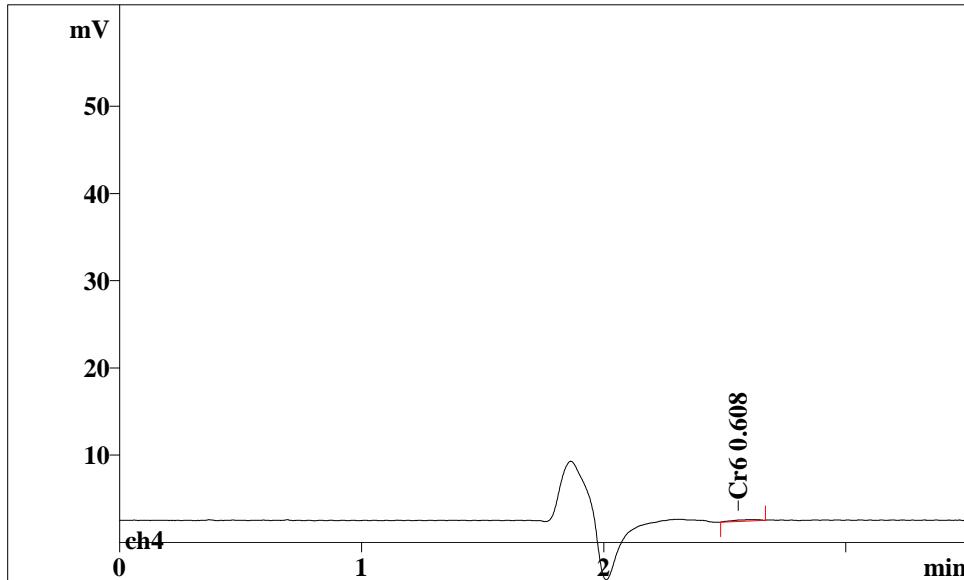
21

Report date: 12/13/2012 9:33:57 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-2-A@10  
 Analysis from: 12/12/2012 4:01:57 PM  
 File: wc121601.chw Last save: 12/12/2012 4:05:27 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40083  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 28  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;  
 ; min; min; mV; %; mV\*sec; %; ; n,n+1;  
 1; 2.60; 0.144; 0.20; 98.46; 1.581; 100.00; 0.00; 0.00; 24

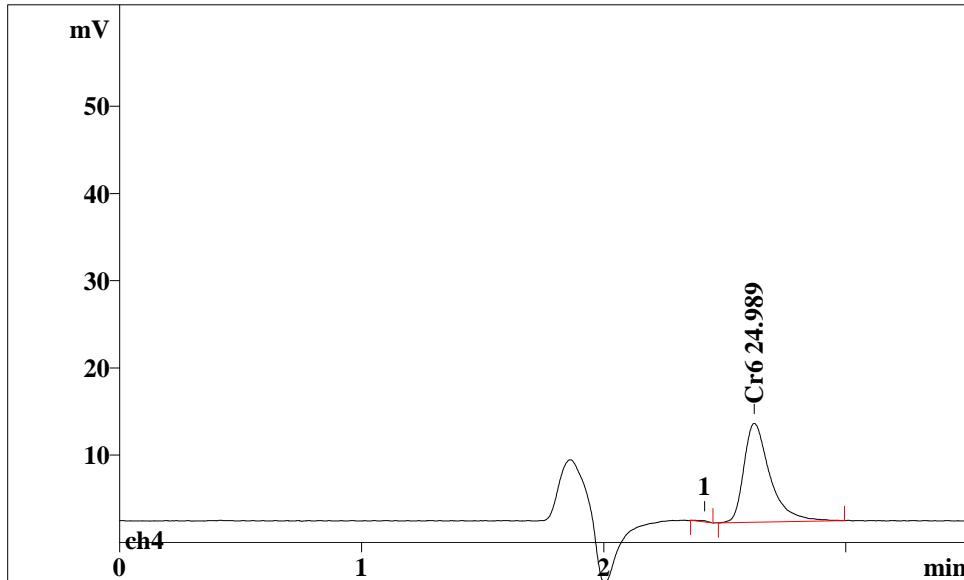
Report date: 12/13/2012 9:34:00 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-2-A@10  
 Analysis from: 12/12/2012 4:10:18 PM  
 File: wc121610.chw Last save: 12/12/2012 4:13:49 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40084  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 29  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.0 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.56; 0.124; 0.17; 97.57; 1.108; 100.00; 0.00; 0.00; 34
  
```

Report date: 12/13/2012 9:34:05 AM  
 Printed by: TestAmerica - Edison  
 Ident: CCV  
 Analysis from: 12/12/2012 4:18:38 PM  
 File: wc121618.chw Last save: 12/12/2012 4:22:08 PM  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40085  
 SAMPLE: 100ul loop  
 :  
 Vial number: 30  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K'; Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;
1;	2.62;	0.108;	11.34;	98.76;	84.931;	99.55;	n,n+1;
					0.00;	0.00;	0.00;

27

Report date: 12/13/2012 9:34:08 AM  
Printed by: TestAmerica - Edison

Ident: CCB  
Analysis from: 12/12/2012 4:26:56 PM  
File: wc121626.chw Last save: 12/12/2012 4:30:27 PM

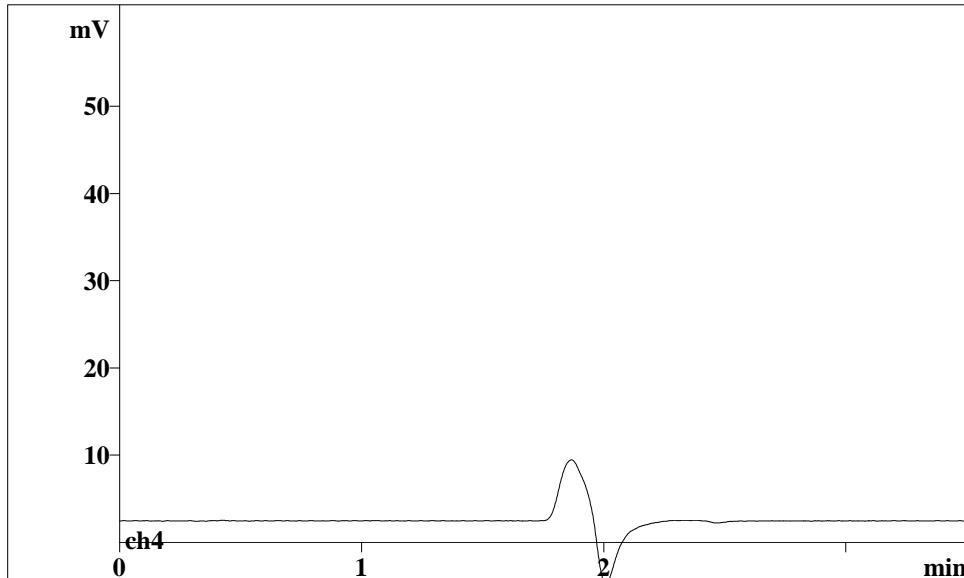
Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
Run operator: TestAmerica - Edison  
Analysis number: 40086

SAMPLE: 100ul loop  
:  
Vial number: 31  
Volume: 1.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000

COLUMN: A Supp 5-150  
Size: 4.6 x 150 mm  
Number:  
Part.size: 7.0  $\mu$ m

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min  
Temperature: 25.0°C  
Pressure: 9.1 MPa



No peaks

Report date: 12/13/2012 9:34:11 AM  
Printed by: TestAmerica - Edison

Ident: 480-29484-B-3-A@10  
Analysis from: 12/12/2012 4:35:16 PM  
File: wc121635.chw Last save: 12/12/2012 4:38:46 PM

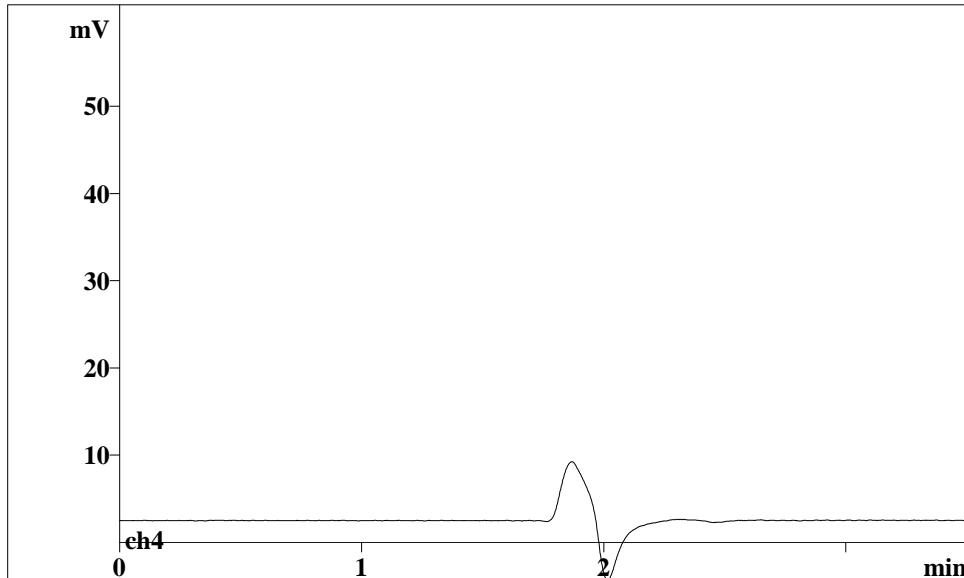
Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
Run operator: TestAmerica - Edison  
Analysis number: 40087

SAMPLE: 100ul loop  
:  
Vial number: 32  
Volume: 1.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000

COLUMN: A Supp 5-150  
Size: 4.6 x 150 mm  
Number:  
Part.size: 7.0  $\mu$ m

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min  
Temperature: 25.0°C  
Pressure: 9.0 MPa



No peaks

Report date: 12/13/2012 9:34:14 AM  
Printed by: TestAmerica - Edison

Ident: 480-29484-B-3-A@10  
Analysis from: 12/12/2012 4:43:35 PM  
File: wc121643.chw Last save: 12/12/2012 4:47:05 PM

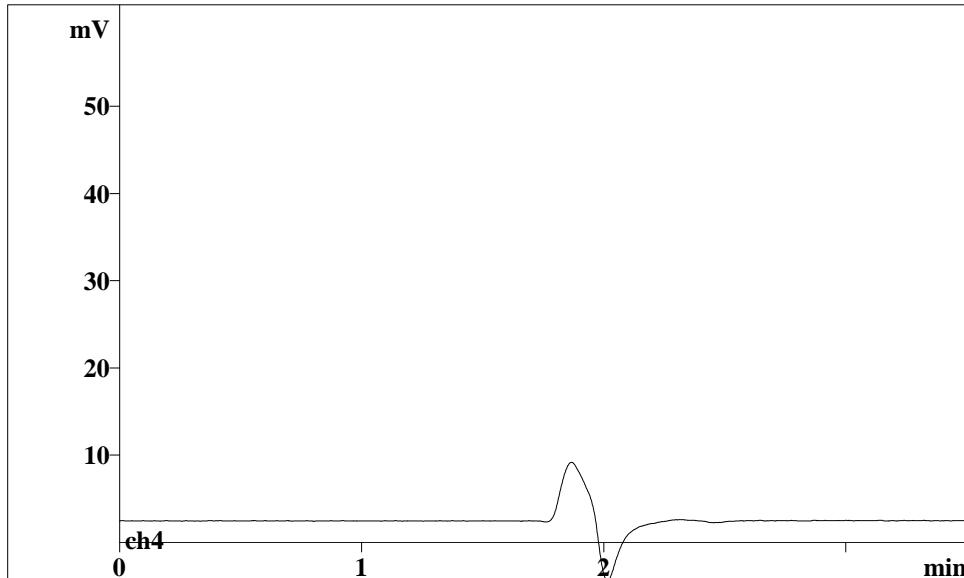
Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
Run operator: TestAmerica - Edison  
Analysis number: 40088

SAMPLE: 100ul loop  
:  
Vial number: 33  
Volume: 1.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000

COLUMN: A Supp 5-150  
Size: 4.6 x 150 mm  
Number:  
Part.size: 7.0  $\mu$ m

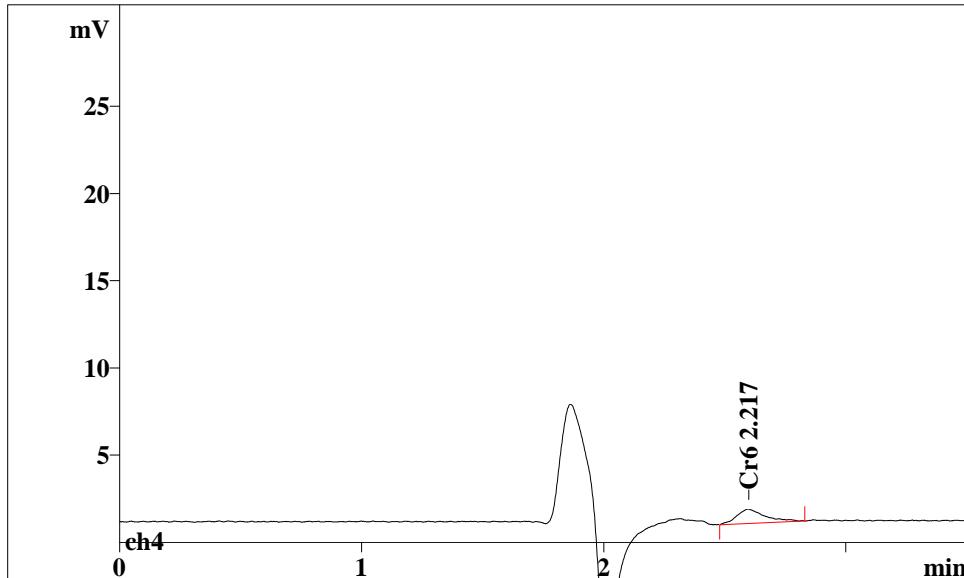
ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min  
Temperature: 25.0°C  
Pressure: 9.0 MPa



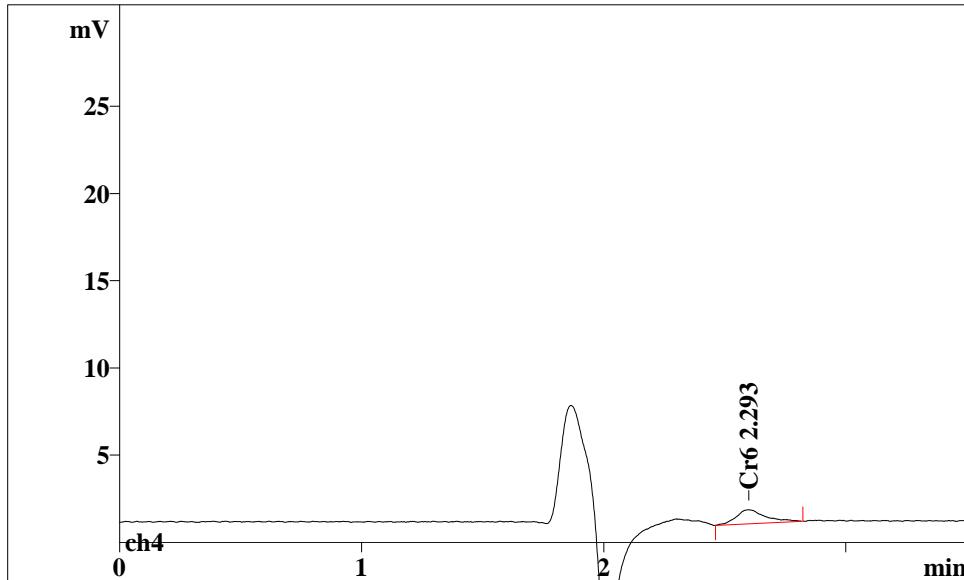
No peaks

Report date: 12/13/2012 9:34:20 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-C-4-A@10  
 Analysis from: 12/12/2012 4:51:51 PM  
 File: wc121651.chw Last save: 12/12/2012 4:55:22 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40089  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 34  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 8.9 MPa



No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;  
 ; min; min; mV; %; mV\*sec; %; ; n,n+1;  
 1; 2.60; 0.115; 0.83; 99.84; 6.640; 100.00; 0.00; 0.00; 23

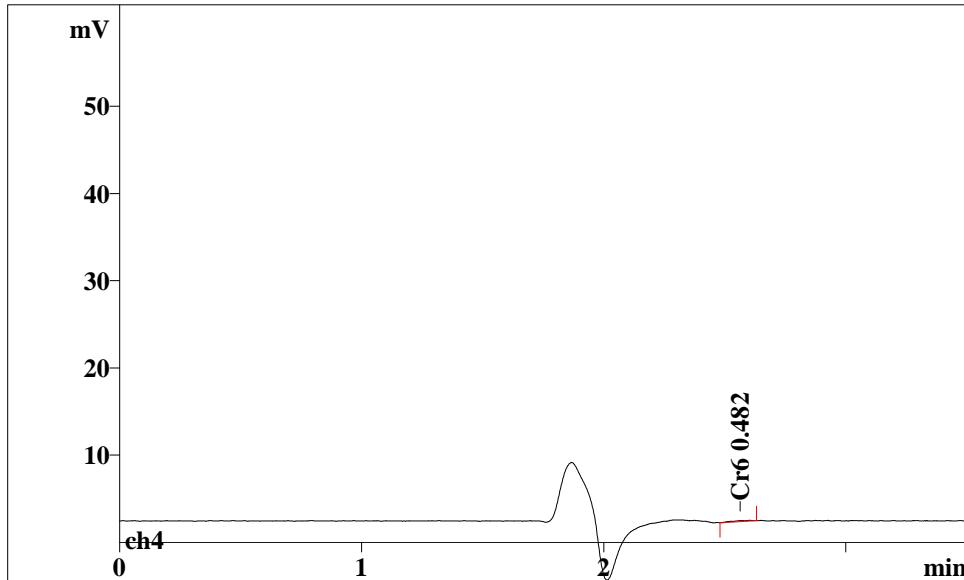
Report date: 12/13/2012 9:34:23 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-C-4-A@10  
 Analysis from: 12/12/2012 5:00:09 PM  
 File: wc121700.chw Last save: 12/12/2012 5:03:39 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40090  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 35  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.60;	0.119;	0.81;	99.77;	6.899;	100.00;	0.00;	0.00;

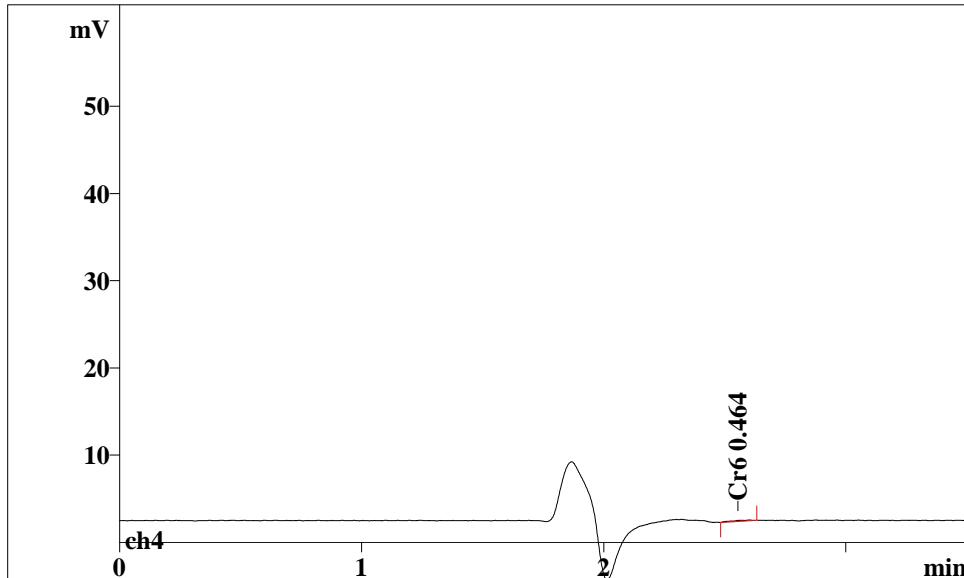
21

Report date: 12/13/2012 9:34:26 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-C-5-A@10  
 Analysis from: 12/12/2012 5:08:26 PM  
 File: wc121708.chw Last save: 12/12/2012 5:11:57 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40091  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 36  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.56;	0.105;	0.13;	98.29;	0.672;	100.00;	0.00;	0.00; 54

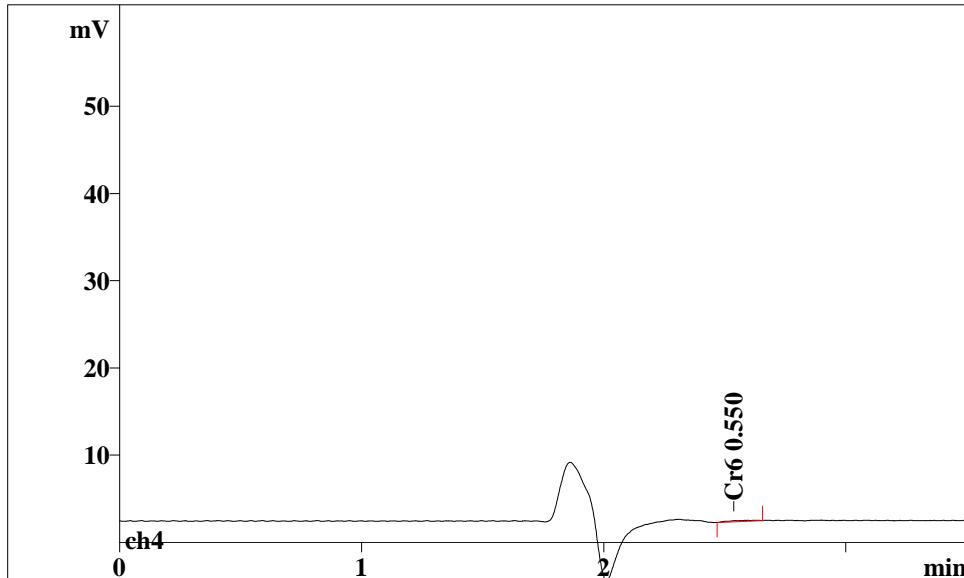
Report date: 12/13/2012 9:34:30 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-C-5-A@10  
 Analysis from: 12/12/2012 5:16:43 PM  
 File: wc121716.chw Last save: 12/12/2012 5:20:13 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40092  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 37  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.56; 0.113; 0.11; 92.34; 0.610; 100.00; 0.00; 0.00; 55
  
```

Report date: 12/13/2012 9:34:33 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-6-A@10  
 Analysis from: 12/12/2012 5:31:46 PM  
 File: wc121731.chw Last save: 12/12/2012 5:35:17 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40093  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 38  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.0 MPa



No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;  
 ; min; min; mV; %; mV\*sec; %; ; n,n+1;  
 1; 2.54; 0.144; 0.12; 99.68; 0.907; 100.00; 0.00; 0.00; 27

Report date: 12/13/2012 9:34:36 AM  
Printed by: TestAmerica - Edison

Ident: 480-29484-B-6-A@10  
Analysis from: 12/12/2012 5:40:01 PM  
File: wc121740.chw Last save: 12/12/2012 5:43:31 PM

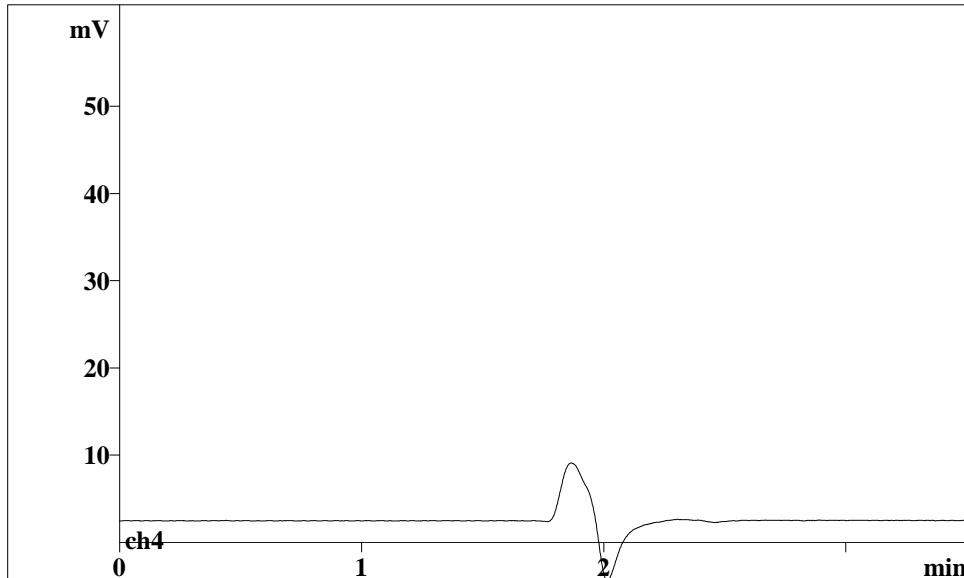
Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
Run operator: TestAmerica - Edison  
Analysis number: 40094

SAMPLE: 100ul loop  
:  
Vial number: 39  
Volume: 1.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000

COLUMN: A Supp 5-150  
Size: 4.6 x 150 mm  
Number:  
Part.size: 7.0  $\mu$ m

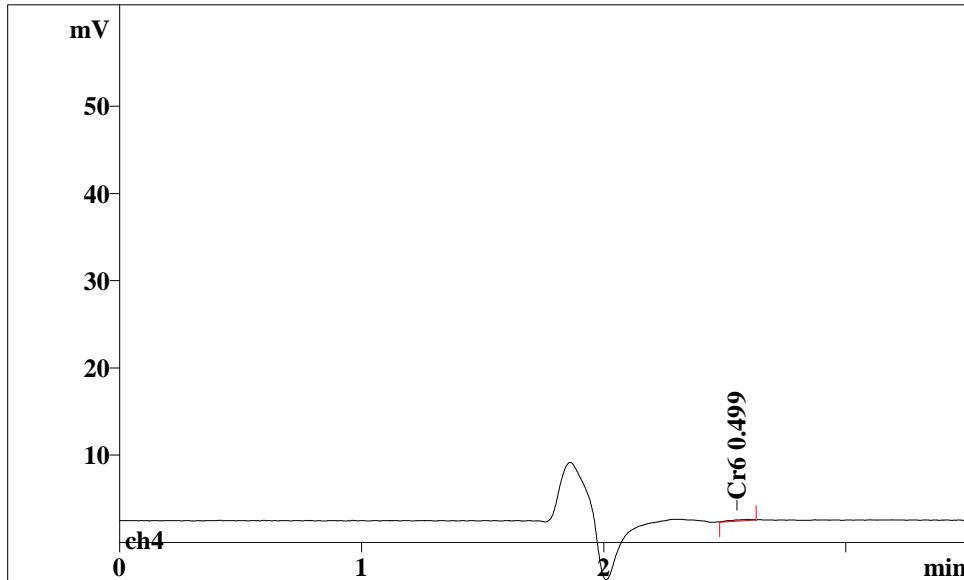
ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min  
Temperature: 25.0°C  
Pressure: 8.9 MPa



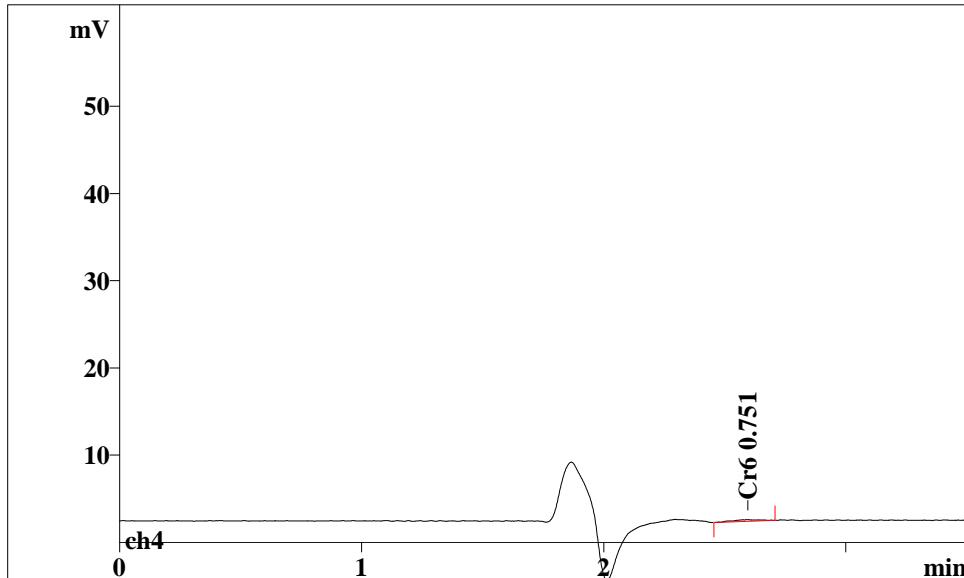
No peaks

Report date: 12/13/2012 9:34:39 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-C-7-A@10  
 Analysis from: 12/12/2012 5:48:15 PM  
 File: wc121748.chw Last save: 12/12/2012 5:51:46 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40095  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 40  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K'; Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;
1;	2.55;	0.111;	0.13;	91.02;	0.733;	100.00;	n,n+1;
					0.00;	0.00;	0.00;
							53

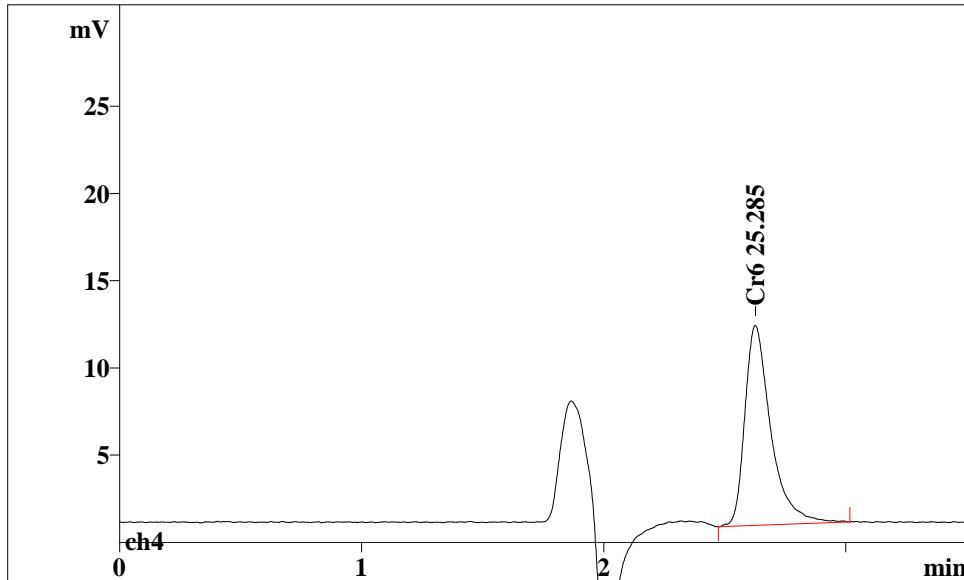
Report date: 12/13/2012 9:34:42 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-C-7-A@10  
 Analysis from: 12/12/2012 5:56:29 PM  
 File: wc121756.chw Last save: 12/12/2012 5:59:59 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40096  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 41  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.59;	0.150;	0.20;	98.53;	1.596;	100.00;	0.00;	0.00;

25

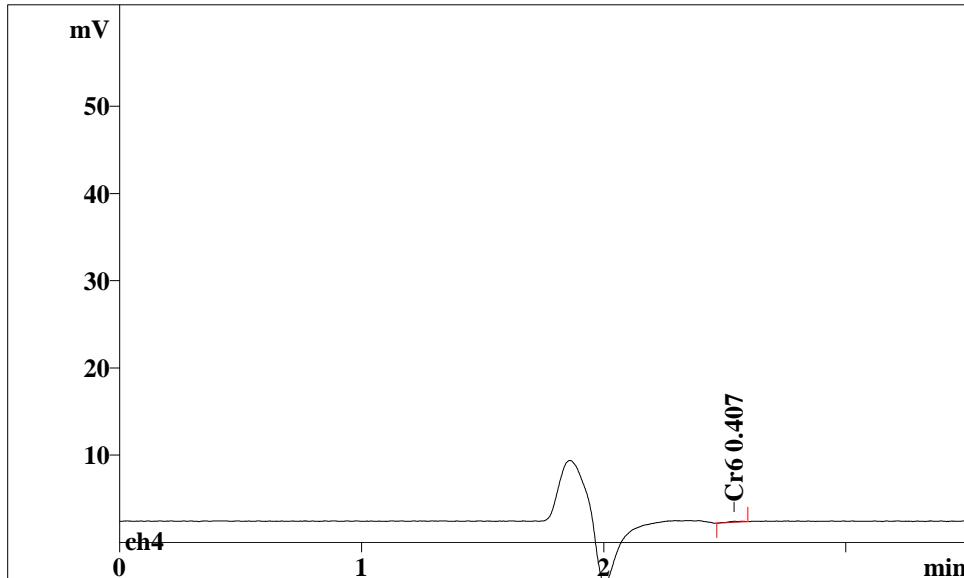
Report date: 12/13/2012 9:34:46 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: CCV  
 Analysis from: 12/12/2012 6:04:41 PM  
 File: wc121804.chw Last save: 12/12/2012 6:08:11 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40097  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 42  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 8.9 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.63; 0.108; 11.47; 100.00; 85.948; 100.00; 0.00; 0.00; 27
  
```

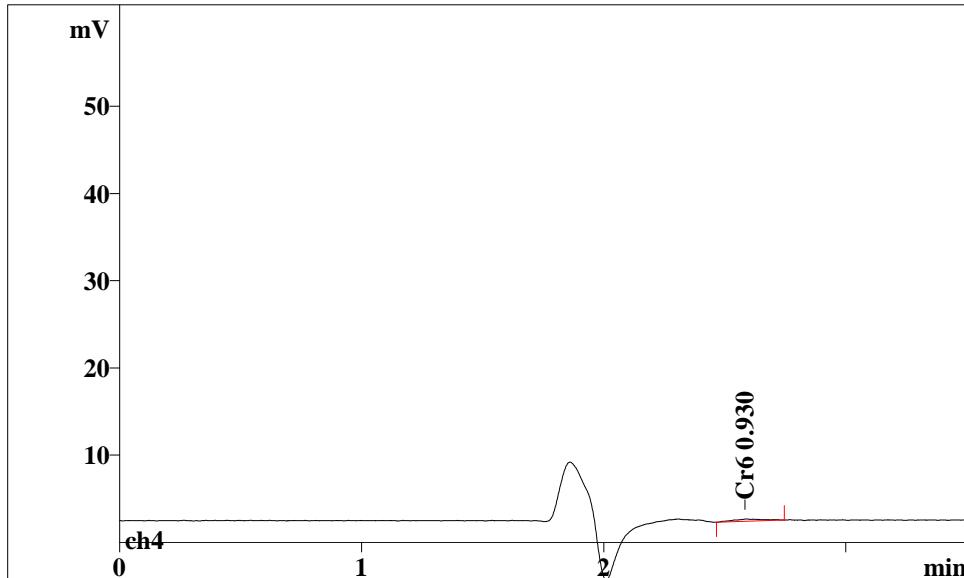
Report date: 12/13/2012 9:34:50 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: CCB  
 Analysis from: 12/12/2012 6:12:52 PM  
 File: wc121812.chw Last save: 12/12/2012 6:16:22 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40098  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 43  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.54; 0.055; 0.11; 98.40; 0.416; 100.00; 0.00; 0.00; 104
  
```

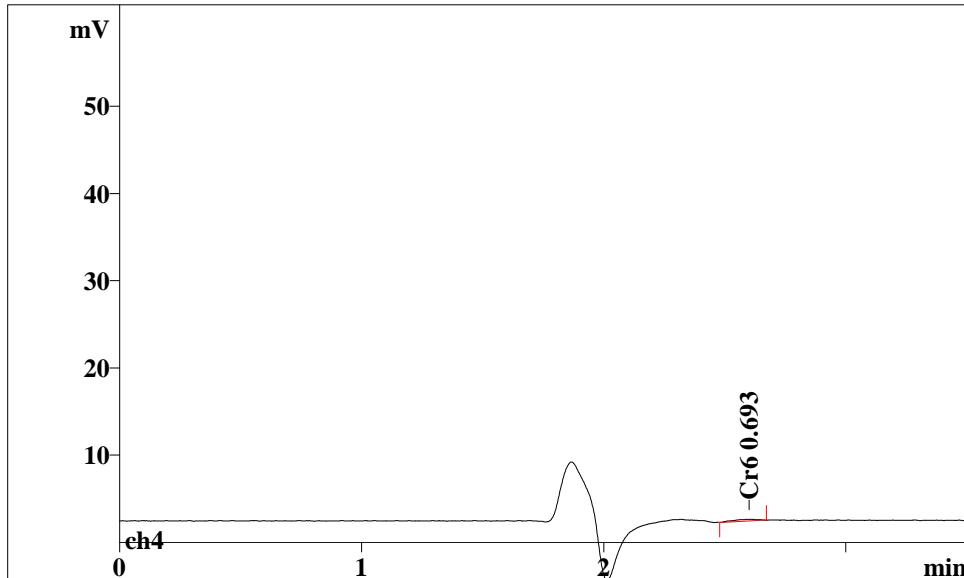
Report date: 12/13/2012 9:34:53 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-8-A@10  
 Analysis from: 12/12/2012 6:21:02 PM  
 File: wc121821.chw Last save: 12/12/2012 6:24:33 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40099  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 44  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.59; 0.131; 0.25; 99.24; 2.214; 100.00; 0.00; 0.00; 19
  
```

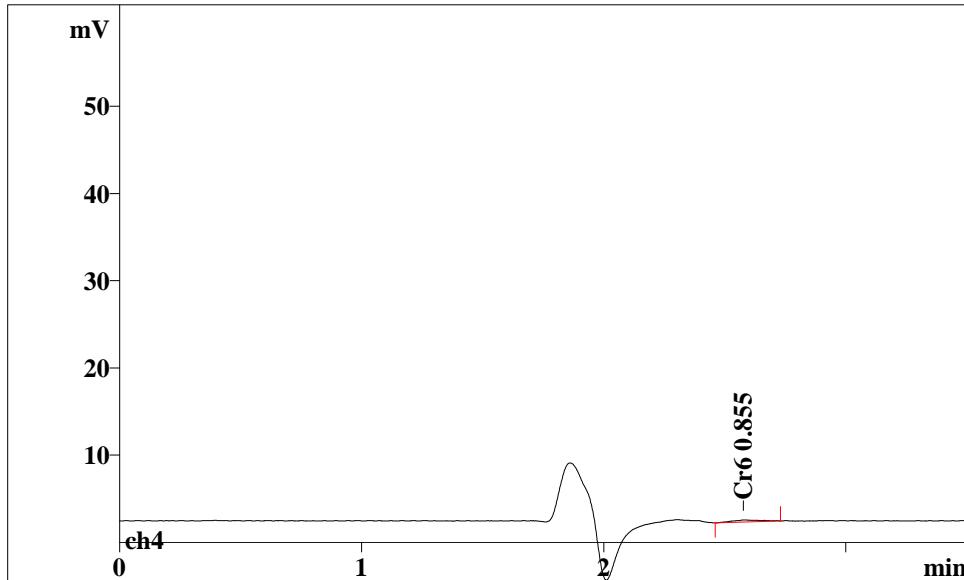
Report date: 12/13/2012 9:34:56 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-8-A@10  
 Analysis from: 12/12/2012 6:29:15 PM  
 File: wc121829.chw Last save: 12/12/2012 6:32:45 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40100  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 45  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.0 MPa



```

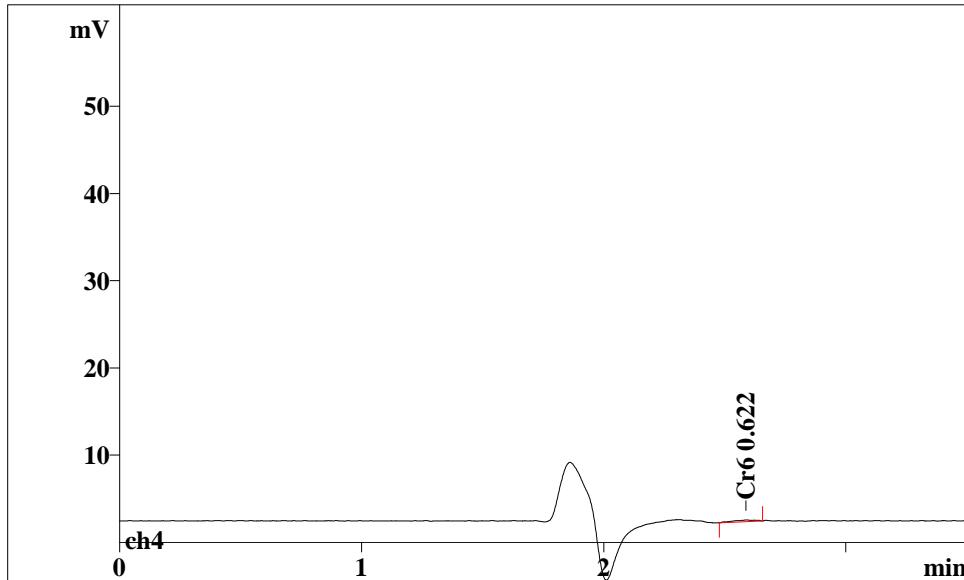
No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.60; 0.132; 0.20; 98.37; 1.400; 100.00; 0.00; 0.00; 31
  
```

Report date: 12/13/2012 9:35:00 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-9-A@10  
 Analysis from: 12/12/2012 6:37:27 PM  
 File: wc121837.chw Last save: 12/12/2012 6:40:58 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40101  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 46  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.0 MPa



No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;  
 ; min; min; mV; %; mV\*sec; %; ; n,n+1;  
 1; 2.58; 0.129; 0.24; 97.14; 1.955; 100.00; 0.00; 0.00; 24

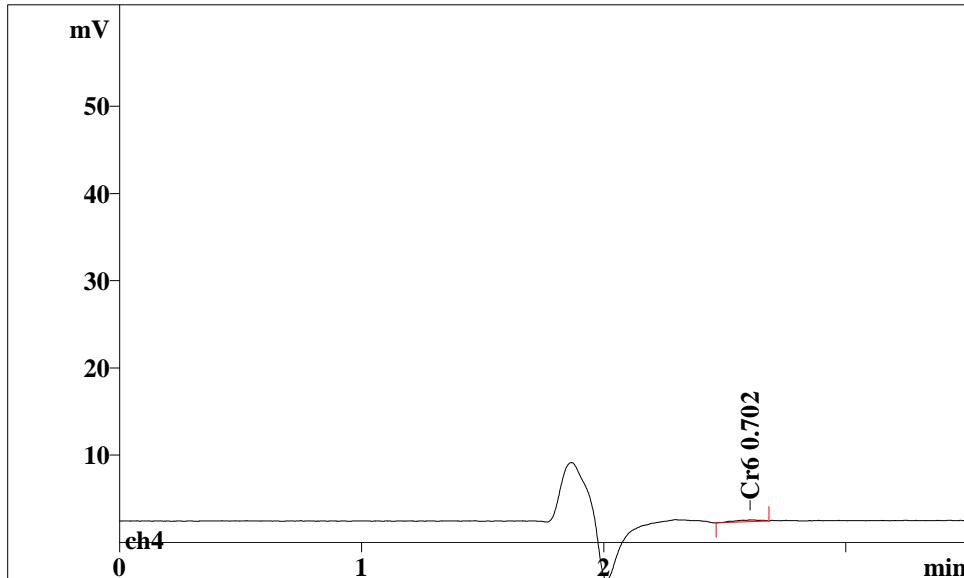
Report date: 12/13/2012 9:35:03 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-9-A@10  
 Analysis from: 12/12/2012 6:45:40 PM  
 File: wc121845.chw Last save: 12/12/2012 6:49:11 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40102  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 47  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



```

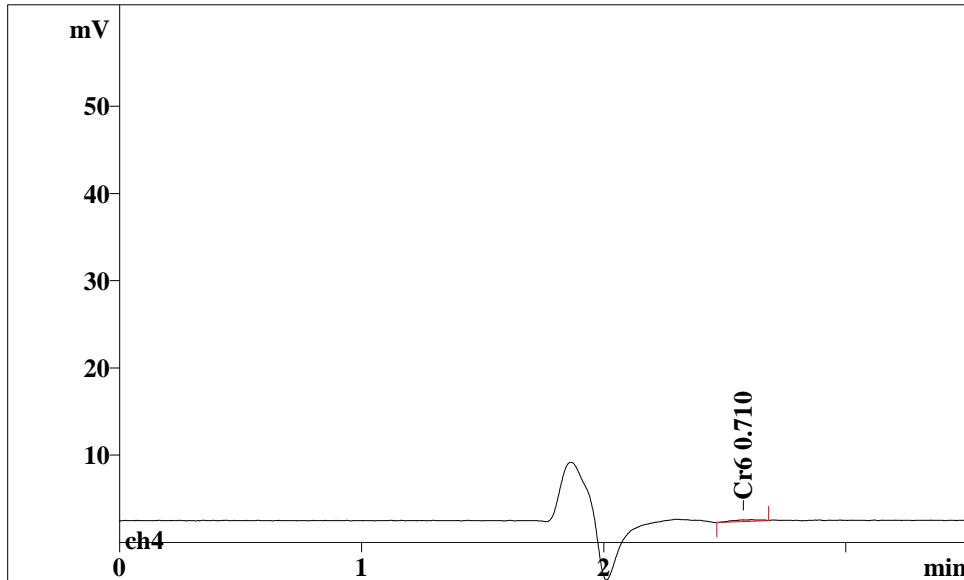
No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.59; 0.112; 0.18; 99.34; 1.155; 100.00; 0.00; 0.00; 38
  
```

Report date: 12/13/2012 9:35:06 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-10-A@10  
 Analysis from: 12/12/2012 6:53:53 PM  
 File: wc121853.chw Last save: 12/12/2012 6:57:23 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40103  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 48  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K'; Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;
1;	2.60;	0.126;	0.19;	94.18;	1.430;	100.00;	n,n+1;
					0.00;	0.00;	0.00;
							30

Report date: 12/13/2012 9:35:09 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-10-A@10  
 Analysis from: 12/12/2012 7:02:06 PM  
 File: wc121902.chw Last save: 12/12/2012 7:05:36 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40104  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 49  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.57; 0.128; 0.19; 97.45; 1.456; 100.00; 0.00; 0.00; 26
  
```

Report date: 12/13/2012 9:35:12 AM  
Printed by: TestAmerica - Edison

Ident: 480-29484-B-11-A@10  
Analysis from: 12/12/2012 7:10:21 PM  
File: wc121910.chw Last save: 12/12/2012 7:13:51 PM

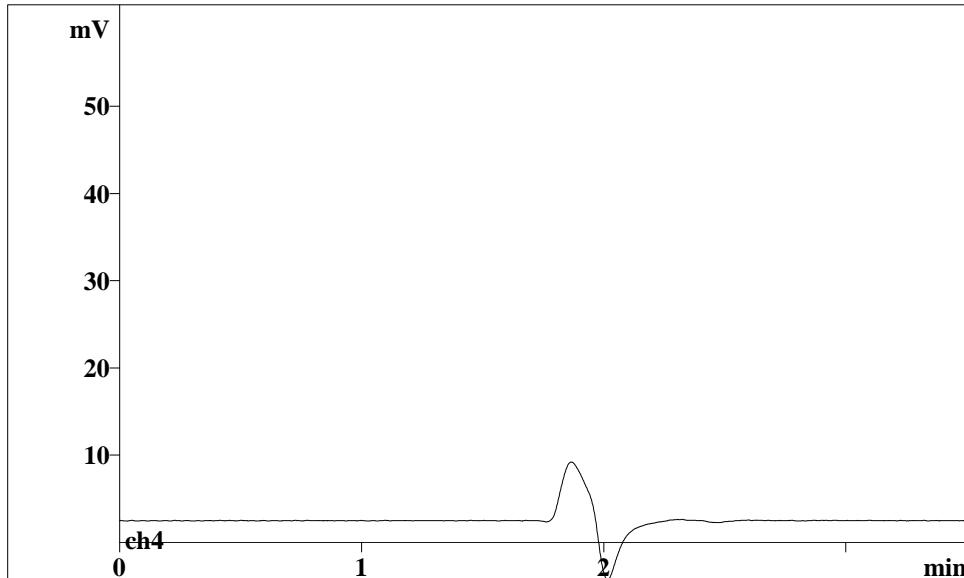
Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
Run operator: TestAmerica - Edison  
Analysis number: 40105

SAMPLE: 100ul loop  
:  
Vial number: 50  
Volume: 1.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000

COLUMN: A Supp 5-150  
Size: 4.6 x 150 mm  
Number:  
Part.size: 7.0  $\mu$ m

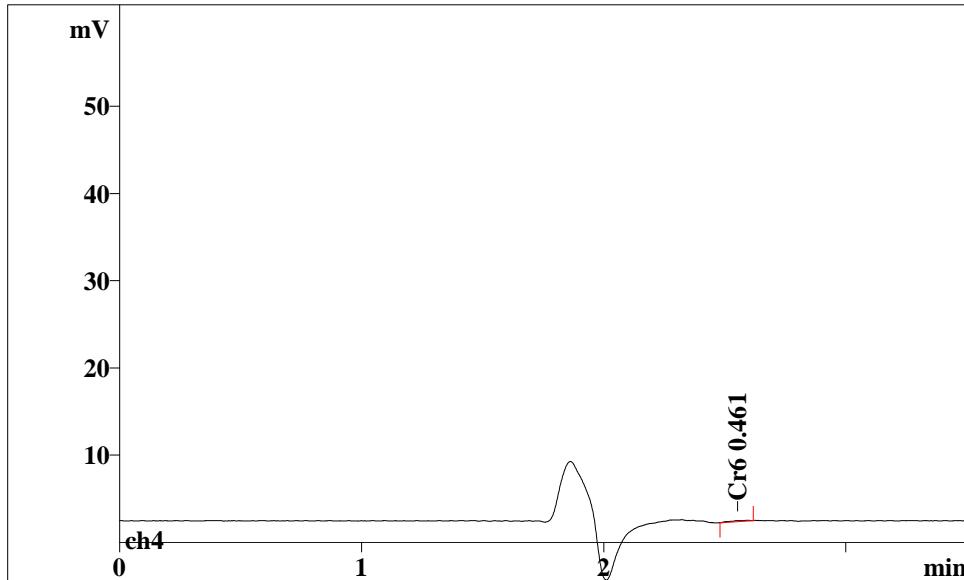
ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min  
Temperature: 25.0°C  
Pressure: 9.1 MPa



No peaks

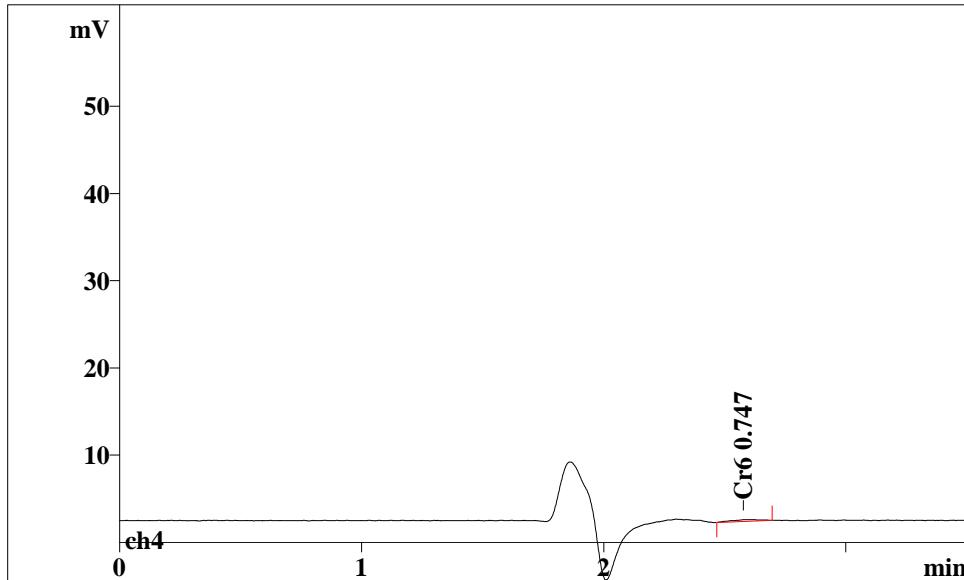
Report date: 12/13/2012 9:35:16 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-11-A@10  
 Analysis from: 12/12/2012 7:18:37 PM  
 File: wc121918.chw Last save: 12/12/2012 7:22:07 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40106  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 51  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



```

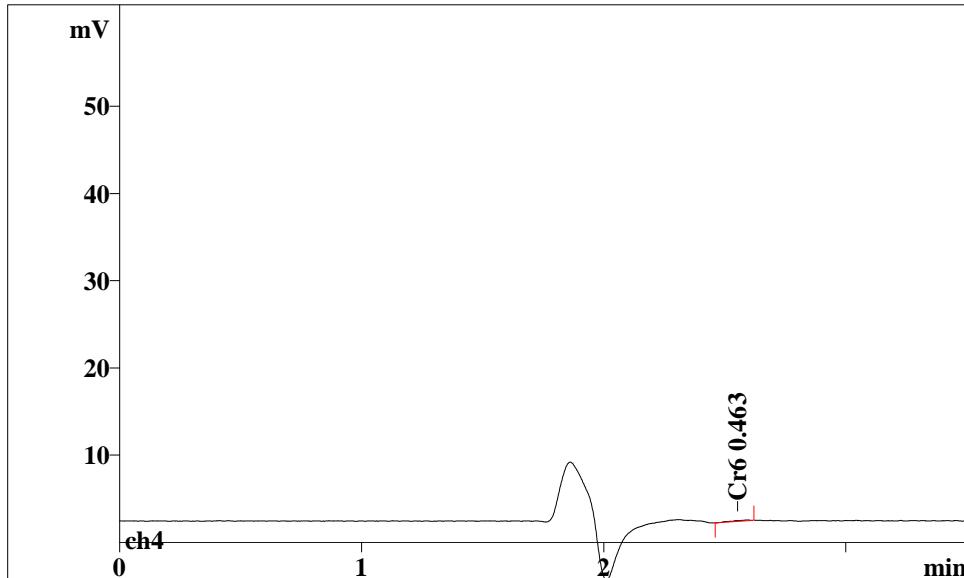
No; Retention; Width/2; Height; Height;      Area;      Area;      K'; Resolution;
;      min;      min;      mV;      %;      mV*sec;      %;      ;      n,n+1;
1;      2.55;      0.108;      0.12;      93.85;      0.601;      100.00;      0.00;      0.00;      71
  
```

Report date: 12/13/2012 9:35:20 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-12-A@10  
 Analysis from: 12/12/2012 7:26:51 PM  
 File: wc121926.chw Last save: 12/12/2012 7:30:22 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40107  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 52  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.58;	0.142;	0.19;	94.71;	1.583;	100.00;	0.00;	0.00;
								25

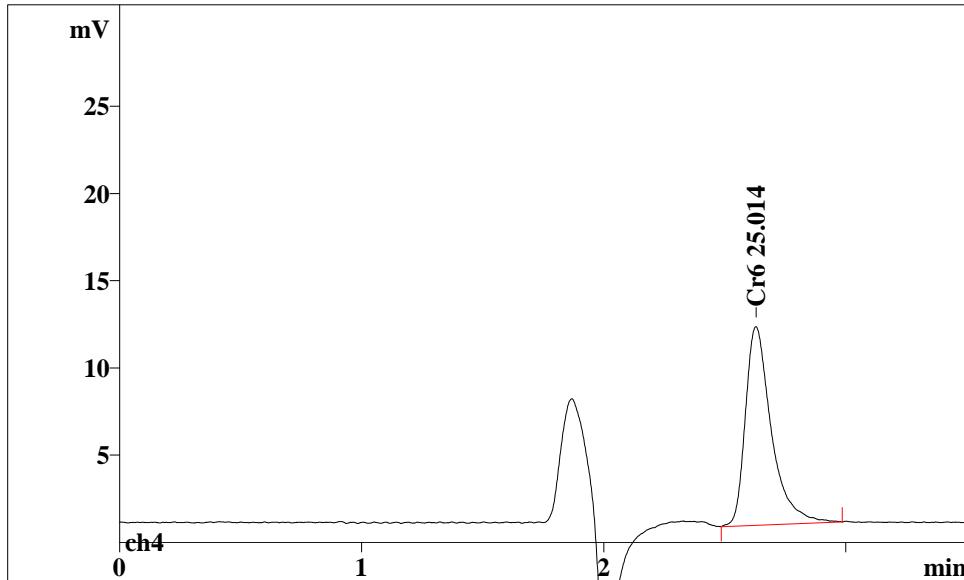
Report date: 12/13/2012 9:35:23 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-12-A@10  
 Analysis from: 12/12/2012 7:35:07 PM  
 File: wc121935.chw Last save: 12/12/2012 7:38:37 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40108  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 53  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.55; 0.110; 0.11; 98.37; 0.609; 100.00; 0.00; 0.00; 51
  
```

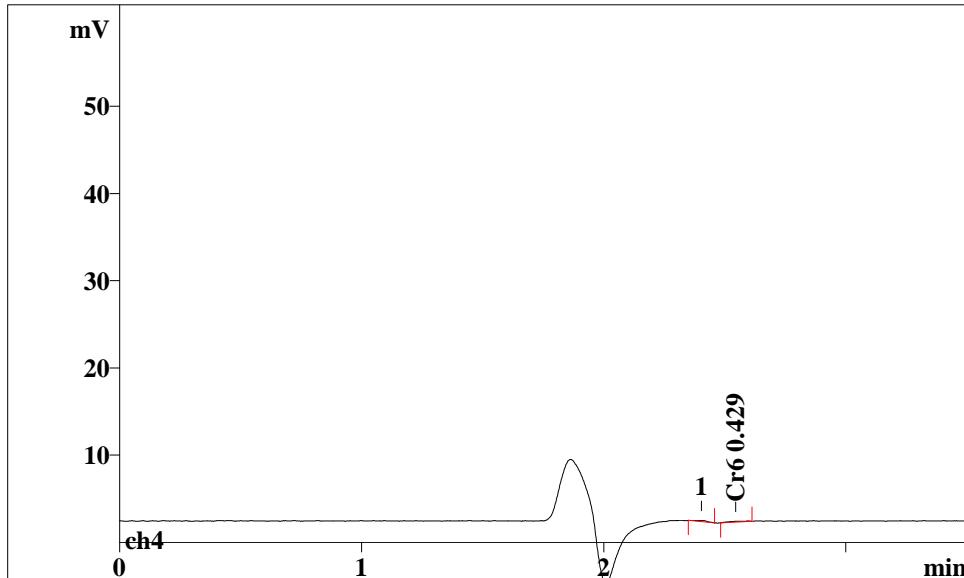
Report date: 12/13/2012 9:35:27 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: CCV  
 Analysis from: 12/12/2012 7:43:23 PM  
 File: wc121943.chw Last save: 12/12/2012 7:46:53 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40109  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 54  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.63; 0.108; 11.39; 100.01; 85.019; 100.00; 0.00; 0.00; 28
  
```

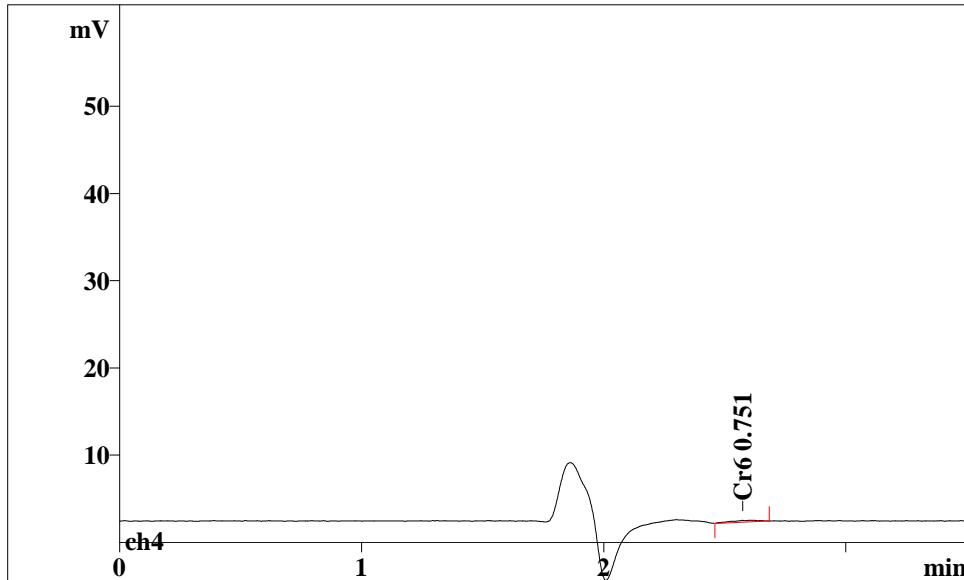
Report date: 12/13/2012 9:35:30 AM  
 Printed by: TestAmerica - Edison  
 Ident: CCB  
 Analysis from: 12/12/2012 7:51:40 PM  
 File: wc121951.chw Last save: 12/12/2012 7:55:10 PM  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40110  
 SAMPLE: 100ul loop  
 :  
 Vial number: 55  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 8.9 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.55;	0.084;	0.10;	42.02;	0.492;	50.17;	0.00;	0.00;

64

Report date: 12/13/2012 9:35:33 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-13-A@10  
 Analysis from: 12/12/2012 7:59:57 PM  
 File: wc121959.chw Last save: 12/12/2012 8:03:27 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40111  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 56  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.57; 0.128; 0.20; 97.78; 1.599; 100.00; 0.00; 0.00; 24
  
```

Report date: 12/13/2012 9:35:36 AM  
Printed by: TestAmerica - Edison

Ident: 480-29484-B-13-A@10  
Analysis from: 12/12/2012 8:08:15 PM  
File: wc122008.chw Last save: 12/12/2012 8:11:46 PM

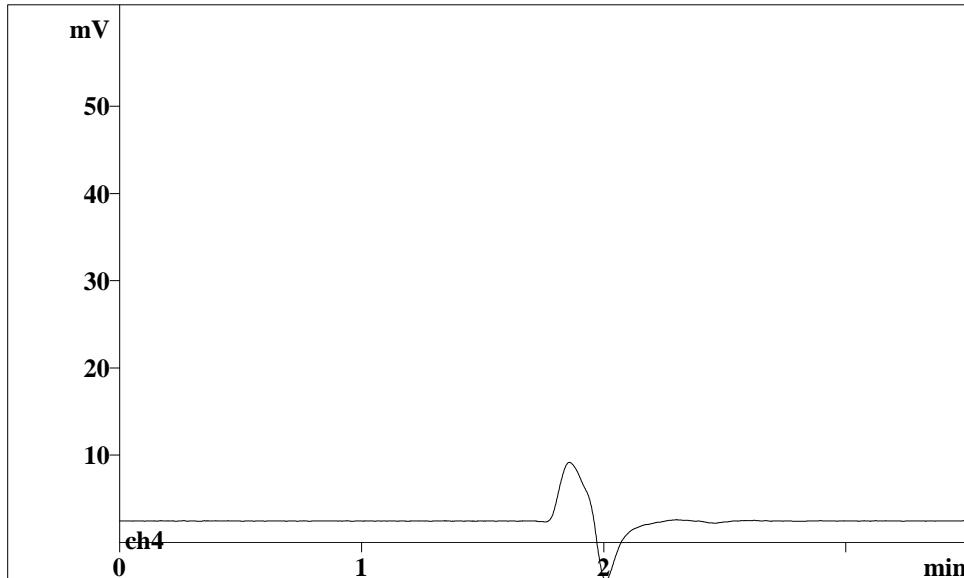
Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
Run operator: TestAmerica - Edison  
Analysis number: 40112

SAMPLE: 100ul loop  
:  
Vial number: 57  
Volume: 1.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000

COLUMN: A Supp 5-150  
Size: 4.6 x 150 mm  
Number:  
Part.size: 7.0  $\mu$ m

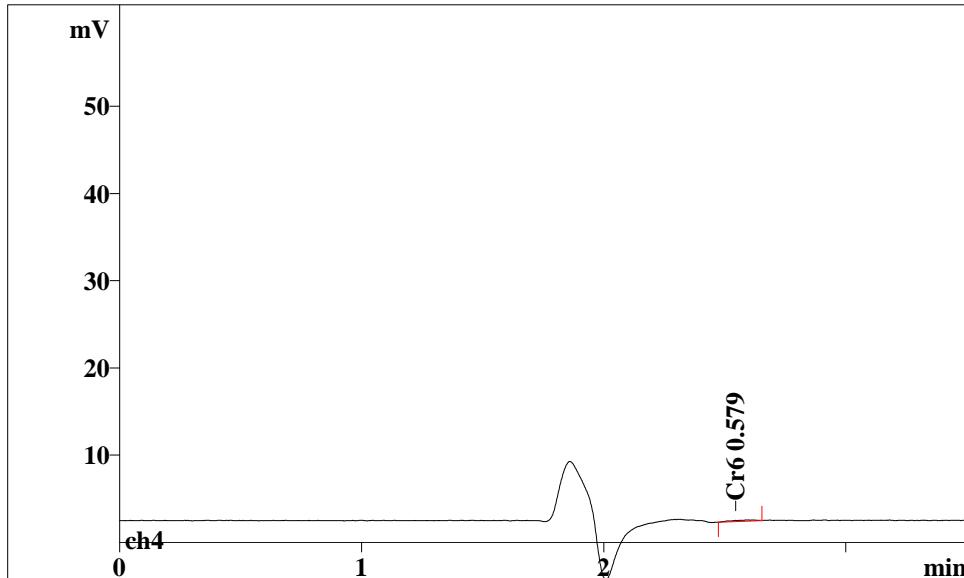
ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min  
Temperature: 25.0°C  
Pressure: 9.1 MPa



No peaks

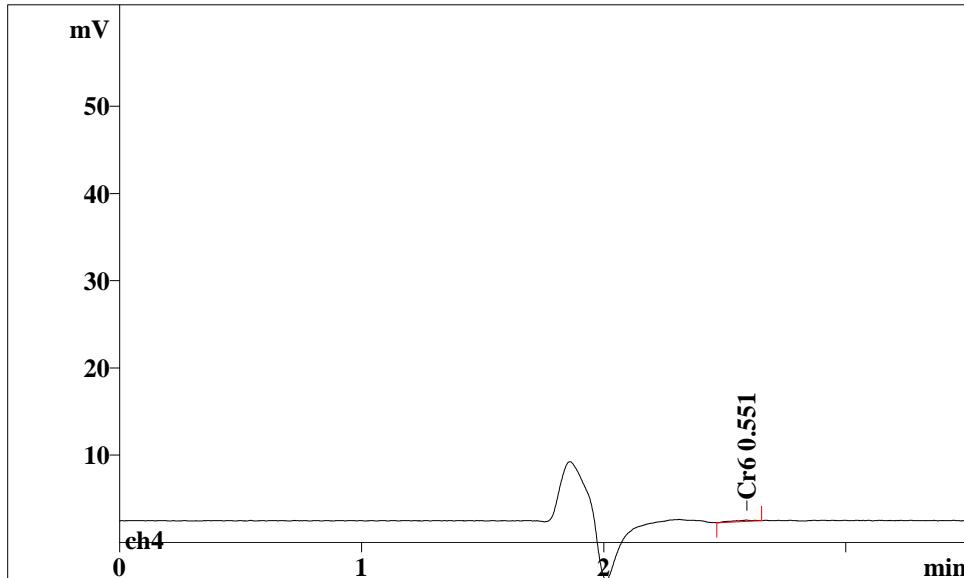
Report date: 12/13/2012 9:35:40 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-C-15-A@10  
 Analysis from: 12/12/2012 8:16:36 PM  
 File: wc122016.chw Last save: 12/12/2012 8:20:07 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40113  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 58  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.55; 0.140; 0.13; 90.87; 1.006; 100.00; 0.00; 0.00; 30
  
```

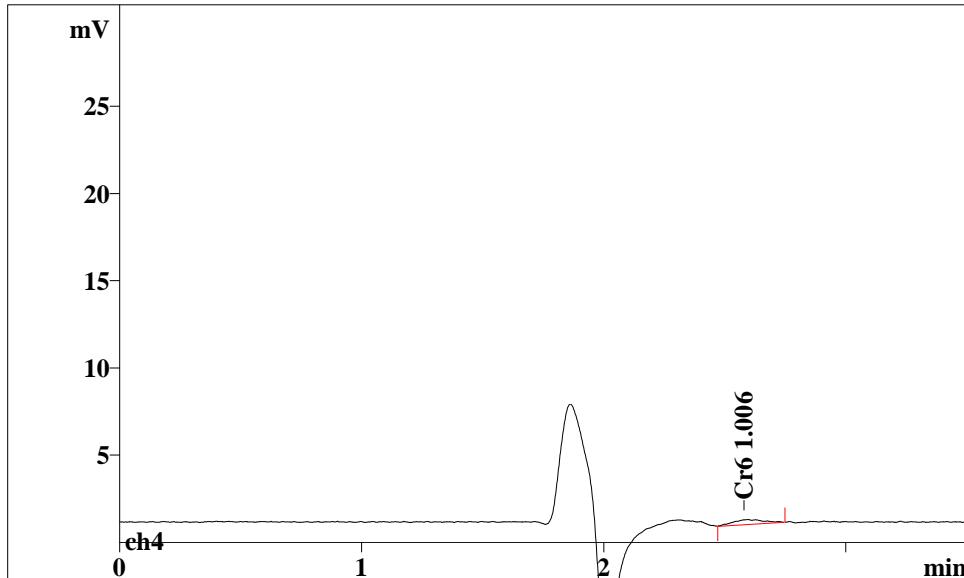
Report date: 12/13/2012 9:35:43 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-C-15-A@10  
 Analysis from: 12/12/2012 8:24:56 PM  
 File: wc122024.chw Last save: 12/12/2012 8:28:26 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40114  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 59  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 8.9 MPa



```

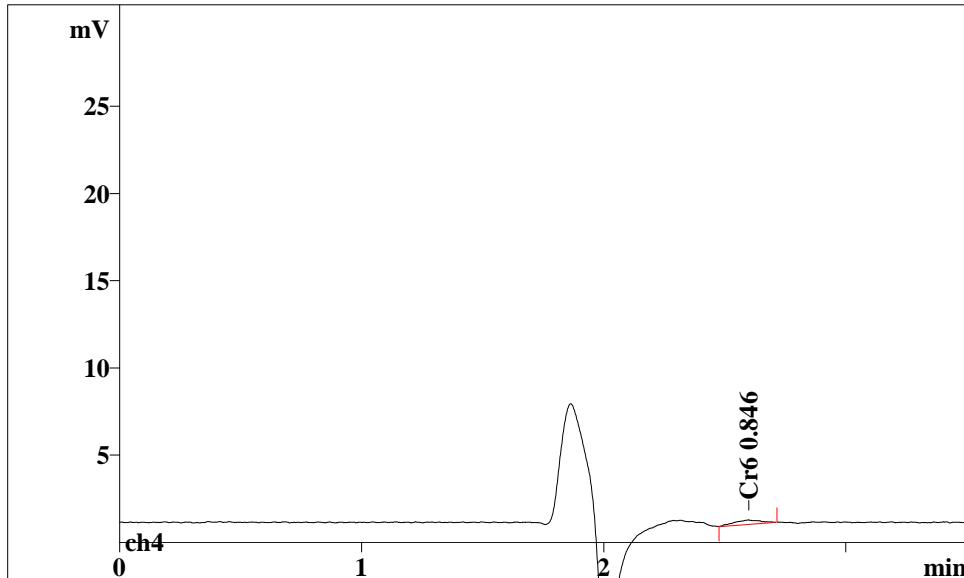
No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.59; 0.118; 0.14; 96.36; 0.909; 100.00; 0.00; 0.00; 37
  
```

Report date: 12/13/2012 9:35:48 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 450-8054-C-1-E@10  
 Analysis from: 12/12/2012 8:33:17 PM  
 File: wc122033.chw Last save: 12/12/2012 8:36:48 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40115  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 60  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.59;	0.134;	0.28;	96.85;	2.474;	100.00;	0.00;	0.00;
								20

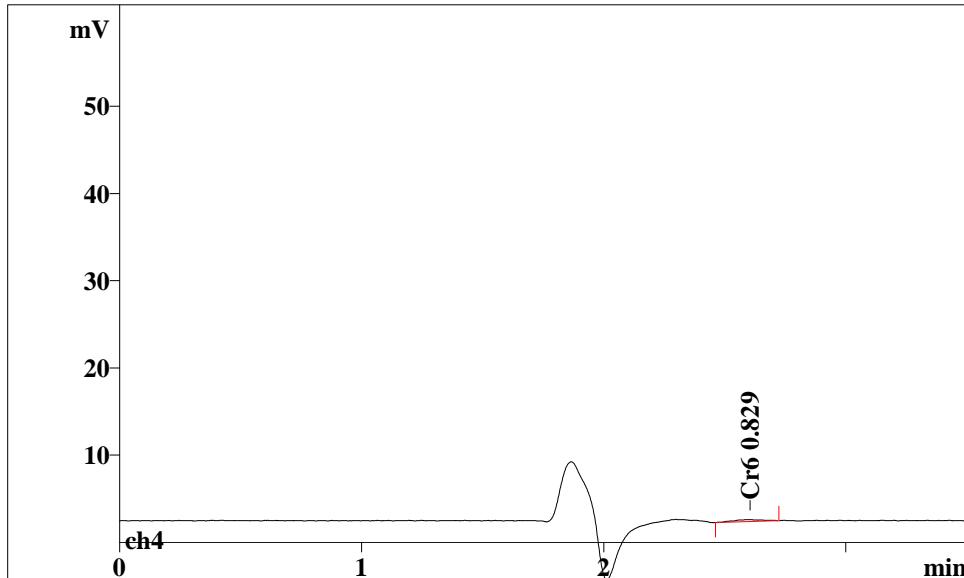
Report date: 12/13/2012 9:35:52 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 450-8054-C-1-E@10  
 Analysis from: 12/12/2012 8:41:39 PM  
 File: wc122041.chw Last save: 12/12/2012 8:45:09 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40116  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 61  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.59;	0.120;	0.26;	97.63;	1.926;	100.00;	0.00;	0.00;

28

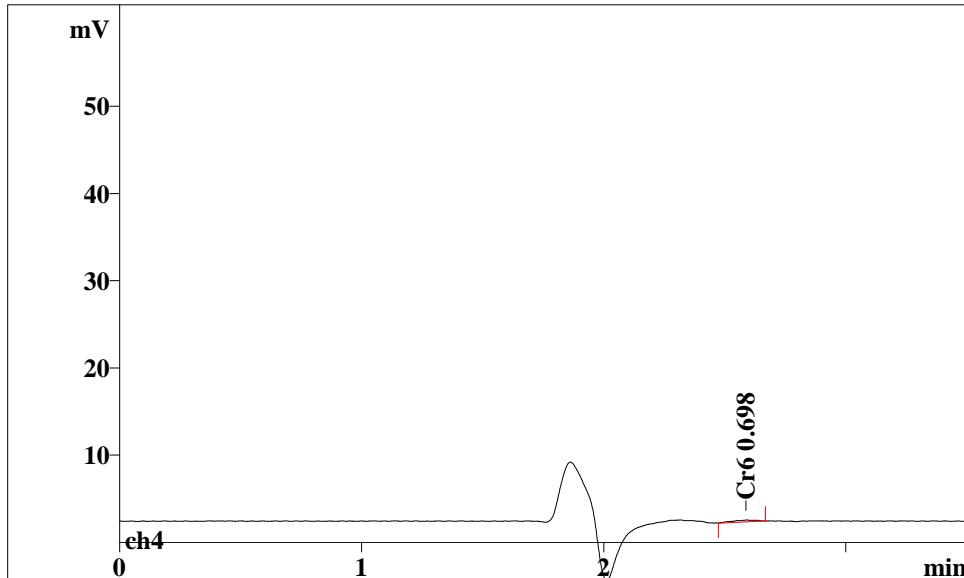
Report date: 12/13/2012 9:35:58 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 450-8055-C-1-C@10  
 Analysis from: 12/12/2012 8:50:00 PM  
 File: wc122050.chw Last save: 12/12/2012 8:53:30 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40117  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 62  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.60; 0.143; 0.23; 99.51; 1.866; 100.00; 0.00; 0.00; 22
  
```

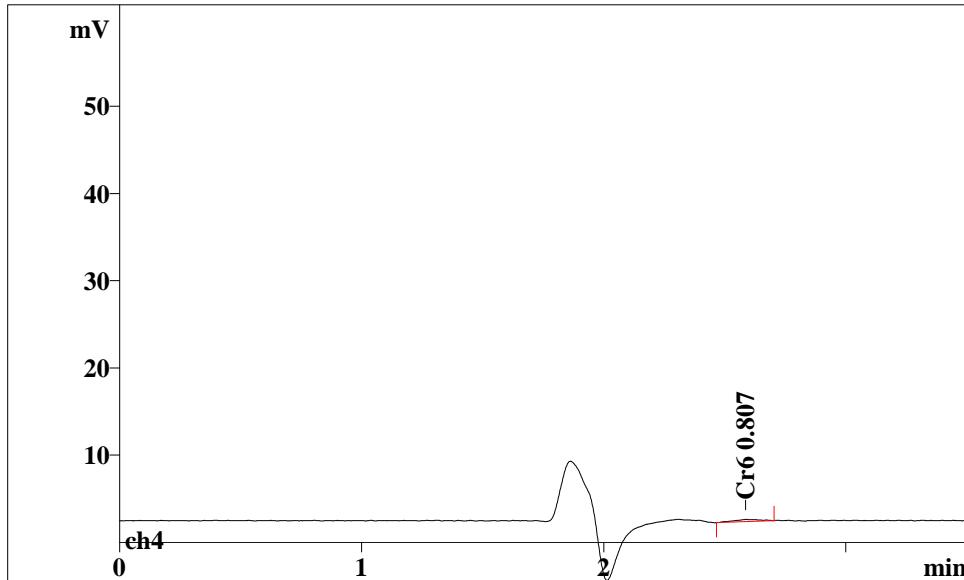
Report date: 12/13/2012 9:36:02 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 450-8055-C-1-C@10  
 Analysis from: 12/12/2012 8:58:23 PM  
 File: wc122058.chw Last save: 12/12/2012 9:01:53 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40118  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 63  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



```

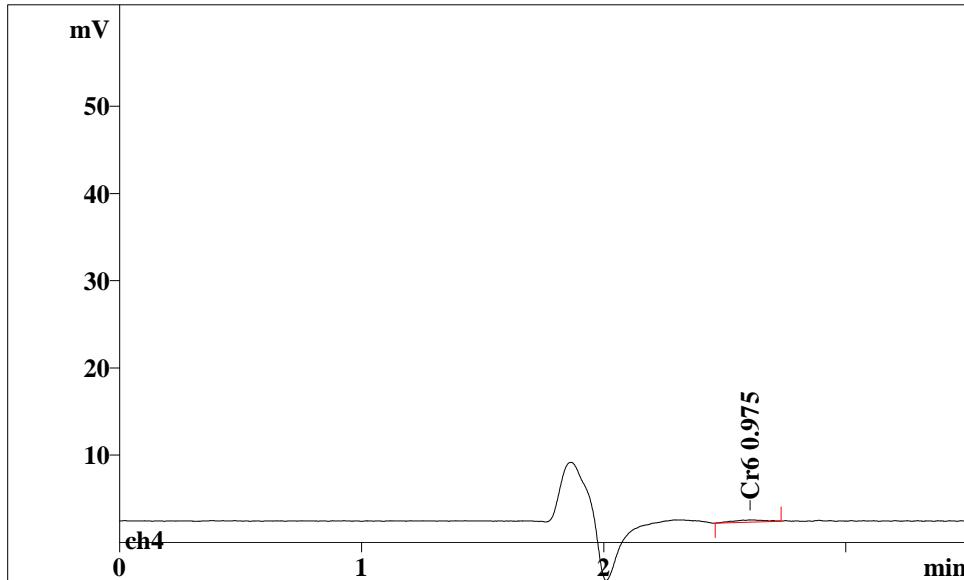
No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.59; 0.137; 0.20; 98.16; 1.416; 100.00; 0.00; 0.00; 32
  
```

Report date: 12/13/2012 9:36:05 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 450-8103-B-21-C@10  
 Analysis from: 12/12/2012 9:06:45 PM  
 File: wc122106.chw Last save: 12/12/2012 9:10:15 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40119  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 64  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



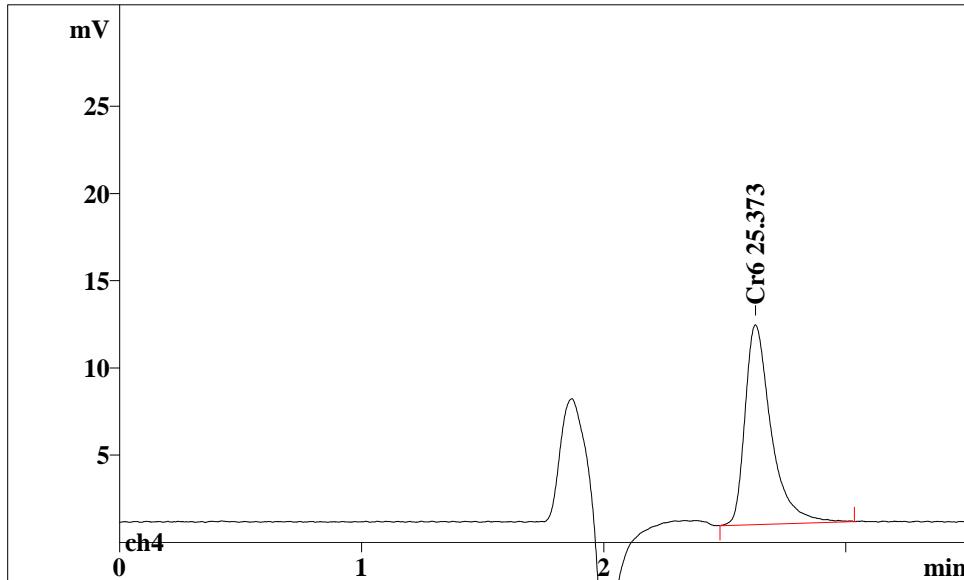
No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;  
 ; min; min; mV; %; mV\*sec; %; ; n,n+1;  
 1; 2.58; 0.121; 0.25; 98.61; 1.792; 100.00; 0.00; 0.00; 29

Report date: 12/13/2012 9:36:08 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 450-8103-B-21-C@10  
 Analysis from: 12/12/2012 9:15:07 PM  
 File: wc122115.chw Last save: 12/12/2012 9:18:38 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40120  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 65  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



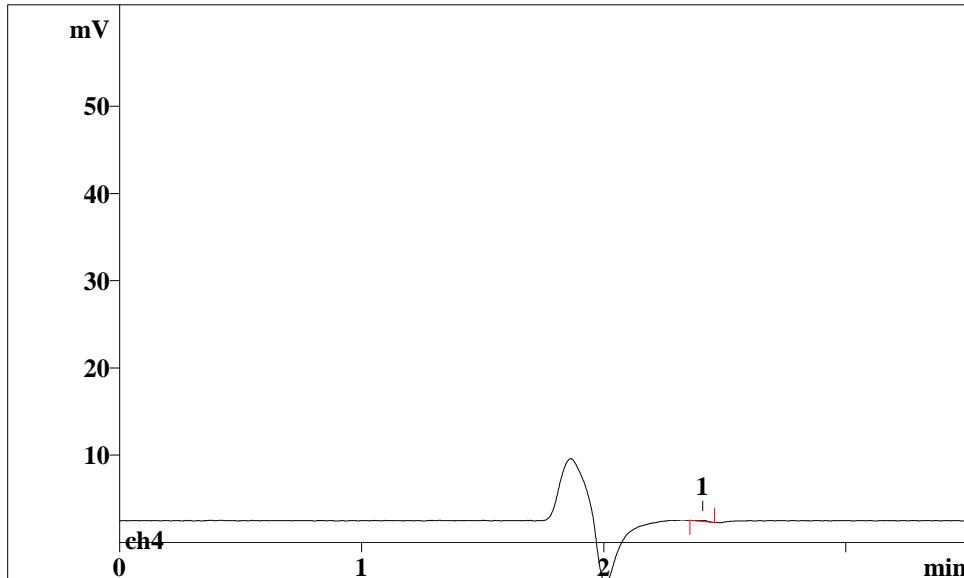
No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.60;	0.156;	0.26;	96.97;	2.367;	100.00;	0.00;	0.00; 19

Report date: 12/13/2012 9:36:12 AM  
 Printed by: TestAmerica - Edison  
 Ident: CCV  
 Analysis from: 12/12/2012 9:23:30 PM  
 File: wc122123.chw Last save: 12/12/2012 9:27:00 PM  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40121  
 SAMPLE: 100ul loop  
 :  
 Vial number: 66  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 8.9 MPa



No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;  
 ; min; min; mV; %; mV\*sec; %; ; n,n+1;  
 1; 2.63; 0.108; 11.46; 99.94; 86.251; 100.00; 0.00; 0.00; 27

Report date: 12/13/2012 9:36:16 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: CCB  
 Analysis from: 12/12/2012 9:31:52 PM  
 File: wc122131.chw Last save: 12/12/2012 9:35:22 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/12/2012 12:53:  
 Run operator: TestAmerica - Edison  
 Analysis number: 40122  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 67  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 25.0°C  
 Pressure: 9.1 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K'; Resolution;
	min;	min;	mV;	%;	mV*sec;	%;	;
1;	0.00;	0.000;	0.00;	0.00;	0.000;	0.00;	n,n+1;
							0.00;

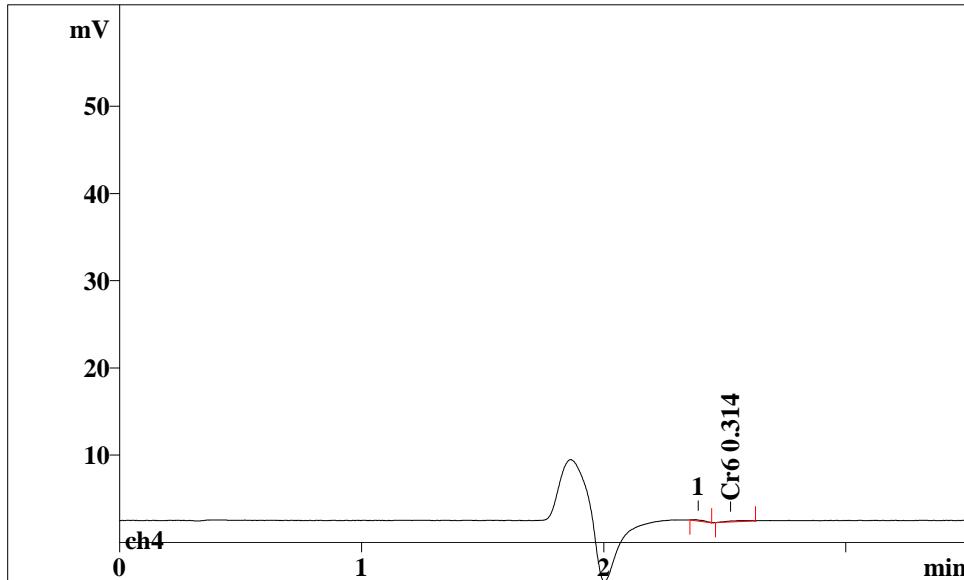


THE LEADER IN ENVIRONMENTAL TESTING

Sample Dilution Log  
Wet ChemistryMethod No.: 7199Analyst: Sarah BrownPrep Batch: 138391Analysis Date: 12/12/12Analytical Batch: 139567

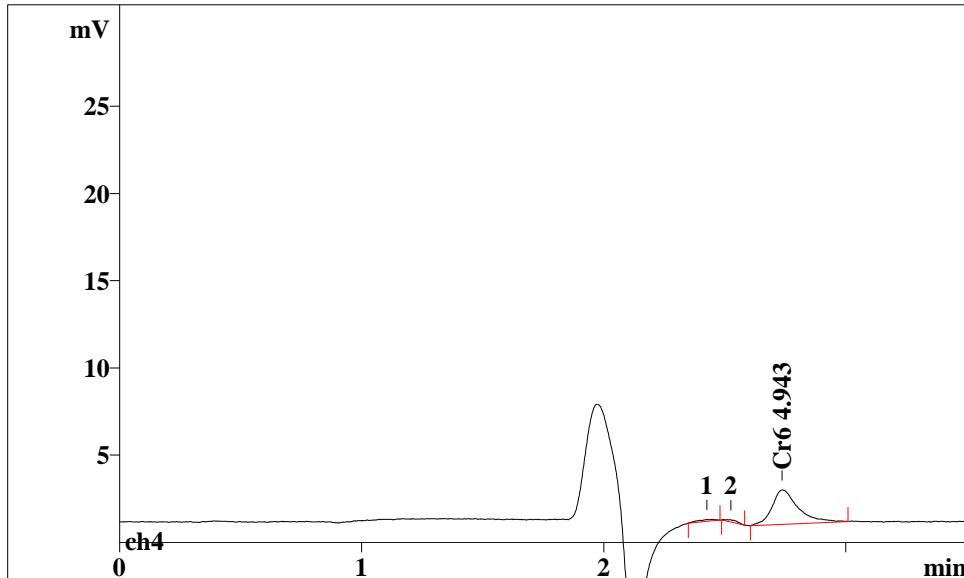
Job/Sample Number	Dilution Factor	Sample Volume (ml)	Final Volume (ml)	Diluent
MB	10	5	50	DI H <sub>2</sub> O
LCSS	25	2	50	
LCSI	500	(5→50) 1	50	
480-29484-14	10	5	50	
480-29484-14 DU	10	5	50	
480-29484-14 MSS	40	1.25	50	
480-29484-14 MSI	500	(5→50) 1	50	
480-29484-14 PDS	40	1.25	50	
480-29484-1	10	5	50	
480-29484-2	10	5	50	
480-29484-3	10	5	50	
480-29484-4	10	5	50	
480-29484-5	10	5	50	
480-29484-6	10	5	50	
480-29484-7	10	5	50	
480-29484-8	10	5	50	
480-29484-9	10	5	50	
480-29484-10	10	5	50	
480-29484-11	10	5	50	
480-29484-12	10	5	50	
480-29484-13	10	5	50	
480-29484-15	10	5	50	
450-8103-21	10	5	50	
450-9054-1	10	5	50	↓

Report date: 12/18/2012 11:30:15 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 0.0  
 Analysis from: 12/17/2012 3:19:00 PM  
 File: wc171519.chw Last save: 12/18/2012 11:29:19 AM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40334  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 1  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 29.9°C  
 Pressure: 8.7 MPa



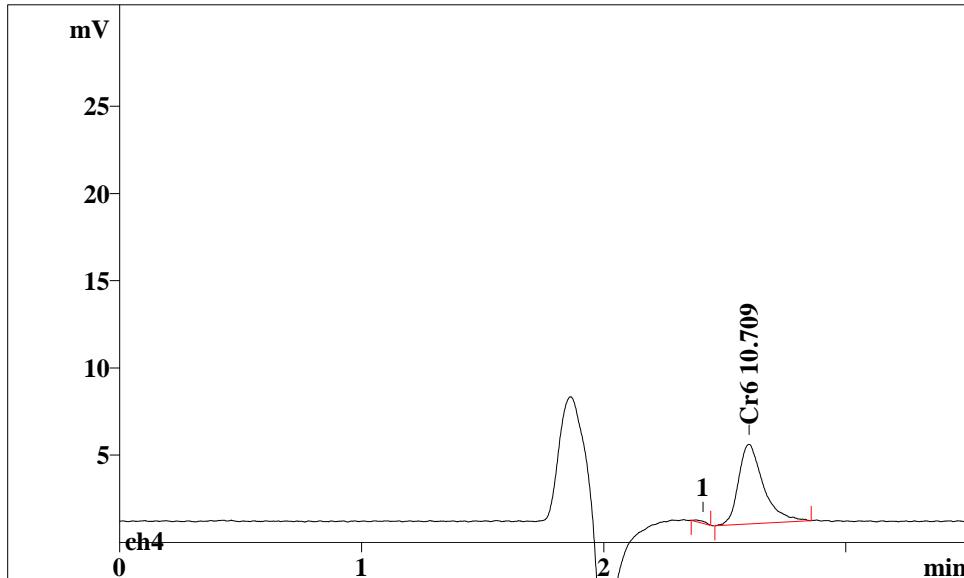
No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
	min;	min;	mV;	%;	mV*sec;	%;		n,n+1;
1;	2.52;	0.124;	0.10;	41.85;	0.695;	60.56;	0.00;	0.00; 36

Report date: 12/18/2012 11:30:26 AM  
 Printed by: TestAmerica - Edison  
 Ident: 5.0  
 Analysis from: 12/17/2012 3:27:08 PM  
 File: wc171527.chw Last save: 12/18/2012 11:29:20 AM  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40335  
 SAMPLE: 100ul loop  
 :  
 Vial number: 2  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.7 MPa



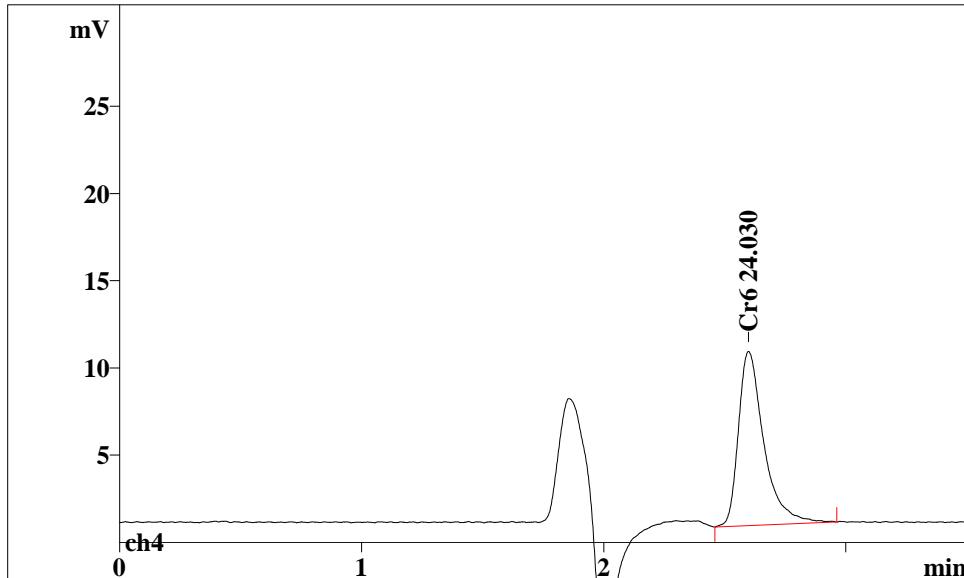
No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.74;	0.104;	1.97;	88.40;	14.834;	93.84;	0.00;	0.00; 30

Report date: 12/18/2012 11:30:30 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 10.0  
 Analysis from: 12/17/2012 4:37:55 PM  
 File: wc171637.chw Last save: 12/18/2012 11:29:20 AM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40270  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 3  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.5 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K'; Resolution;
	min;	min;	mV;	%;	mV*sec;	%;	;
1;	2.60;	0.103;	4.57;	97.30;	32.442;	98.77;	0.00; 0.00; 30

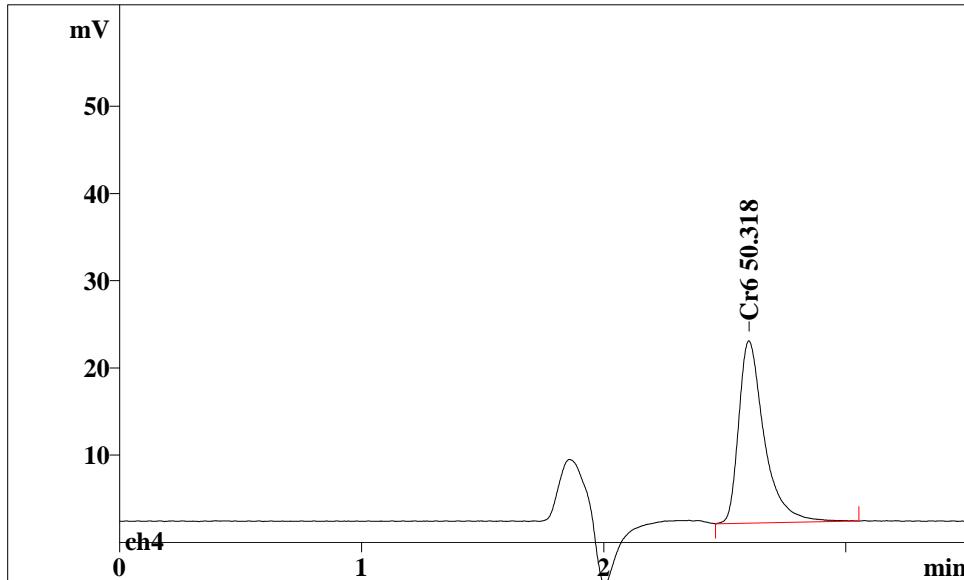
Report date: 12/18/2012 11:30:34 AM  
 Printed by: TestAmerica - Edison  
 Ident: 25.0  
 Analysis from: 12/17/2012 4:46:05 PM  
 File: wc171646.chw Last save: 12/18/2012 11:29:20 AM  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40271  
 SAMPLE: 100ul loop  
 :  
 Vial number: 4  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.5 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.60; 0.105; 9.99; 100.02; 73.127; 100.00; 0.00; 0.00; 28
  
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Report date: 12/18/2012 11:30:37 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 50.0  
 Analysis from: 12/17/2012 4:54:16 PM  
 File: wc171654.chw Last save: 12/18/2012 11:29:20 AM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40272  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 5  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa

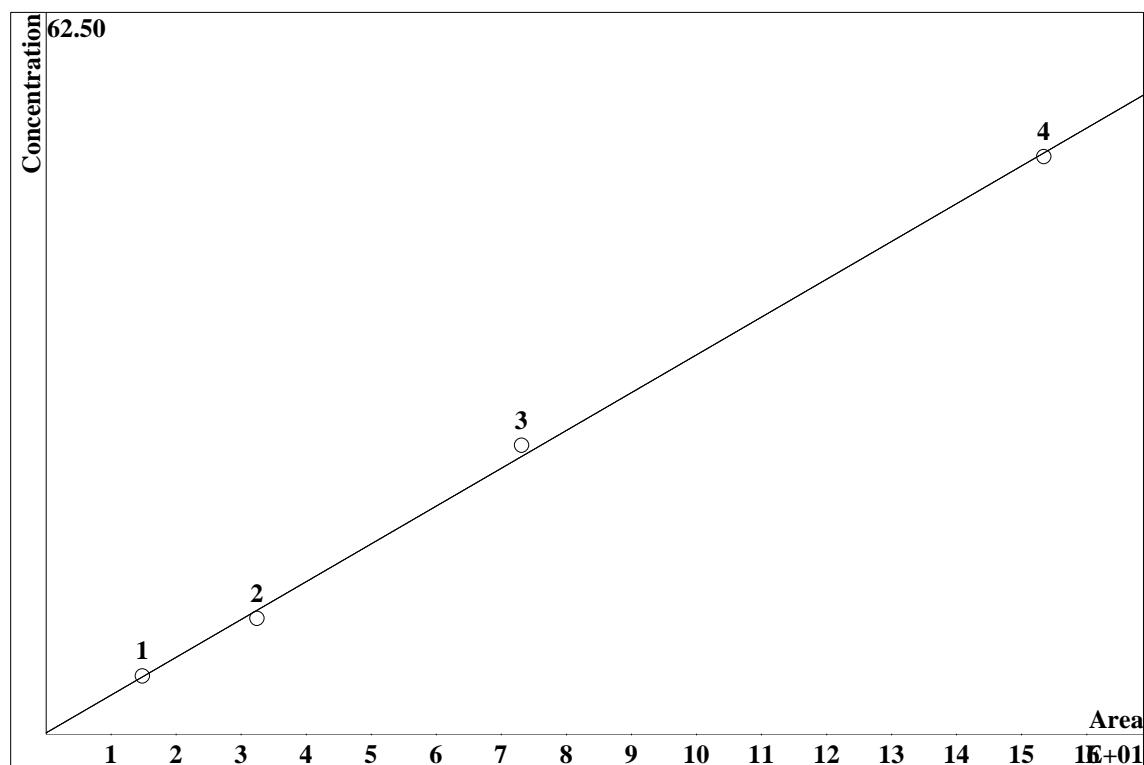


```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.60; 0.105; 20.91; 100.01; 153.415; 100.00; 0.00; 0.00; 28
  
```

## CALIBRATION OF COMPONENT Cr6

Method: stl\_hexchrome\_soil.mtw  
 Equation:  $Q = 0.327422 \cdot A + 0.0864754$   
 RSD: 3.910 %  
 Correlation coefficient: 0.999368



K3 = 0      K2 = 0      K1 = 0.327422      K0 = 0.0864754

Base:      Area

Ref.channel: ch4

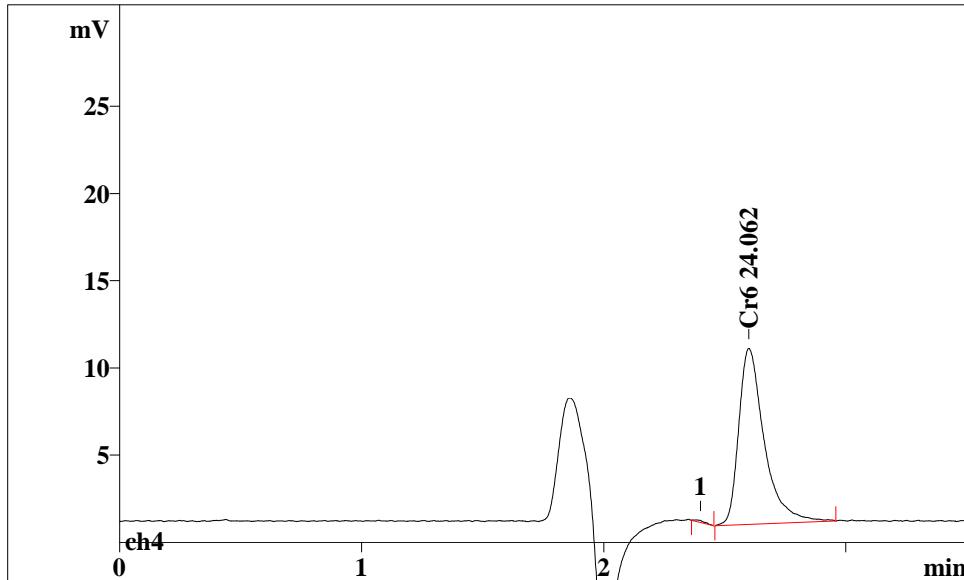
ISTD:

Formula:      Linear

Weight:      1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1;	1.977;	14.83;	5;	1;	2.779;	Yes;	wc171527.chw
2;	4.563;	32.44;	10;	1;	2.779;	Yes;	wc171637.chw
3;	9.992;	73.13;	25;	1;	2.779;	Yes;	wc171646.chw
4;	20.91;	153.4;	50;	1;	2.779;	Yes;	wc171654.chw

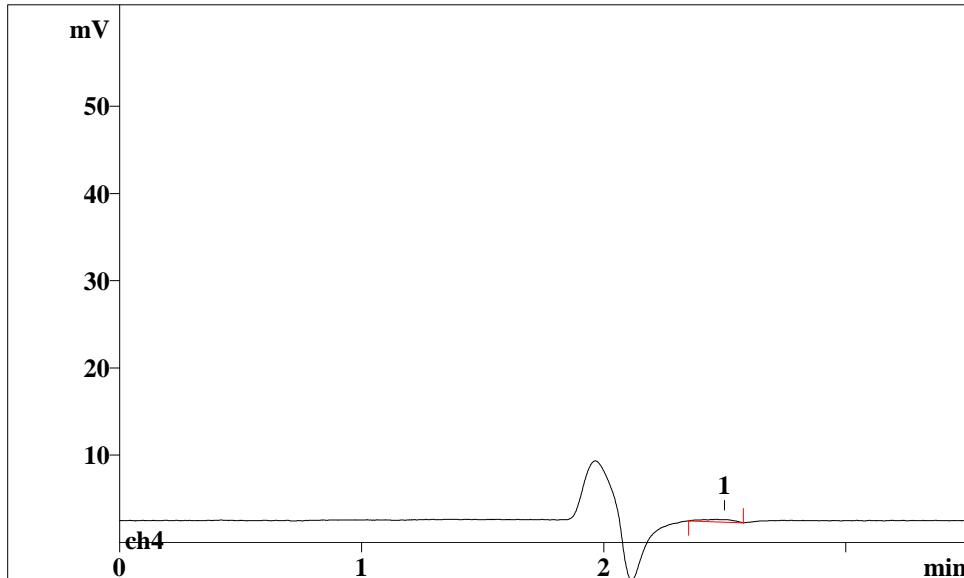
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 Printed by: TestAmerica - Edison  
  
 Ident: ICV  
 Analysis from: 12/17/2012 5:02:27 PM  
 File: wc171702.chw Last save: 12/17/2012 4:24:17 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40273  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 6  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.5 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K'; Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;
1;	2.60;	0.105;	10.09;	98.78;	73.829;	99.52;	n,n+1;
							0.00;
							0.00;

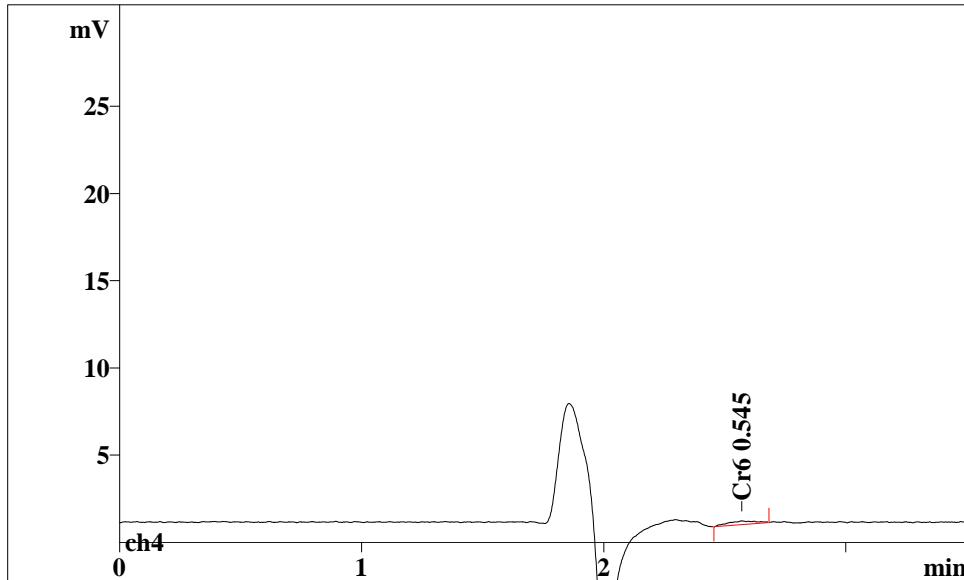
28

Report date: 12/18/2012 11:30:57 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: ICB  
 Analysis from: 12/17/2012 5:50:36 PM  
 File: wc171750.chw Last save: 12/17/2012 4:24:17 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40274  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 7  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K'; Resolution;
	min;	min;	mV;	%;	mV*sec;	%;	;
1;	0.00;	0.000;	0.00;	0.00;	0.000;	0.00;	n,n+1;
							0.00;

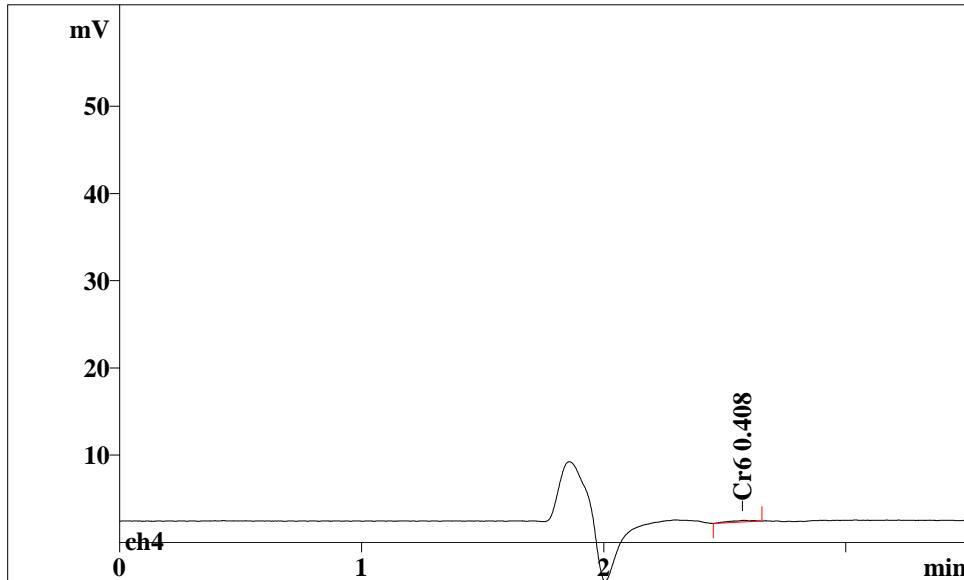
Report date: 12/18/2012 11:31:01 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: MB 460-140206/1-A@10  
 Analysis from: 12/17/2012 5:58:48 PM  
 File: wc171758.chw Last save: 12/17/2012 4:24:17 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40275  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 8  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.57;	0.132;	0.22;	98.46;	1.672;	100.00;	0.00;	0.00;

26

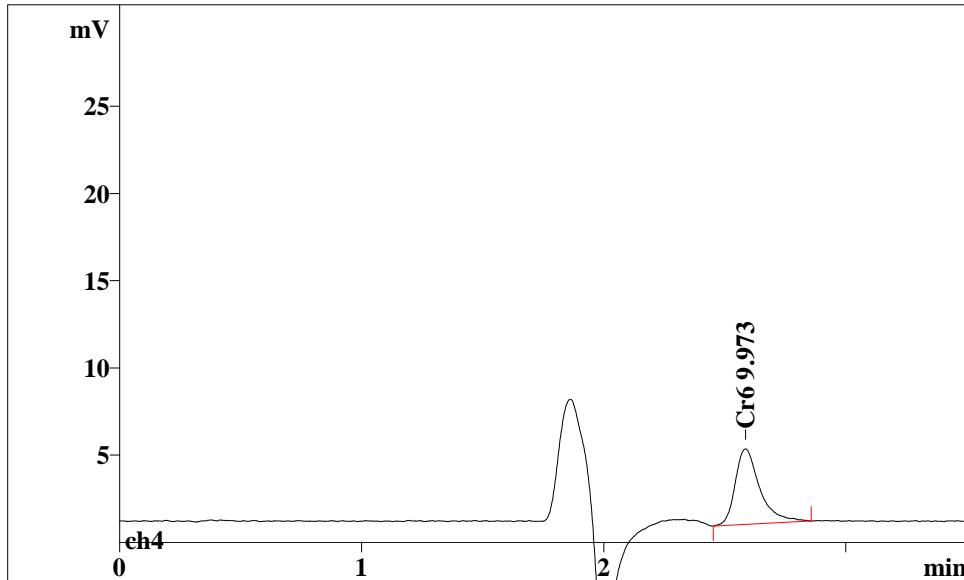
Report date: 12/18/2012 11:31:04 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: MB 460-140206/1-A@10  
 Analysis from: 12/17/2012 6:07:01 PM  
 File: wc171807.chw Last save: 12/17/2012 4:24:17 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40276  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 9  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.57;	0.124;	0.18;	95.01;	1.251;	100.00;	0.00;	0.00;

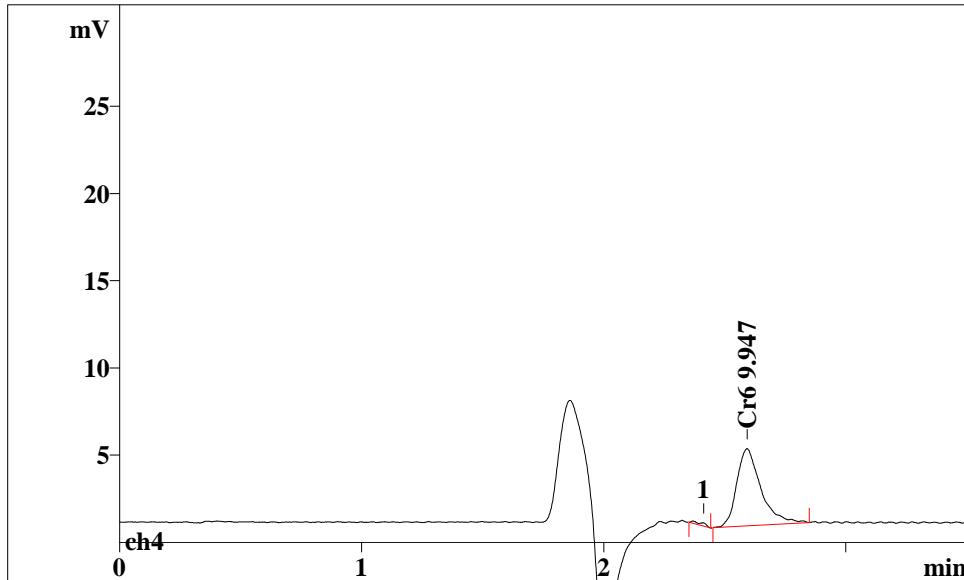
33

Report date: 12/18/2012 11:31:07 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: LCSS 460-140206/2-A@25  
 Analysis from: 12/17/2012 6:15:19 PM  
 File: wc171815.chw Last save: 12/17/2012 4:24:17 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40277  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 10  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



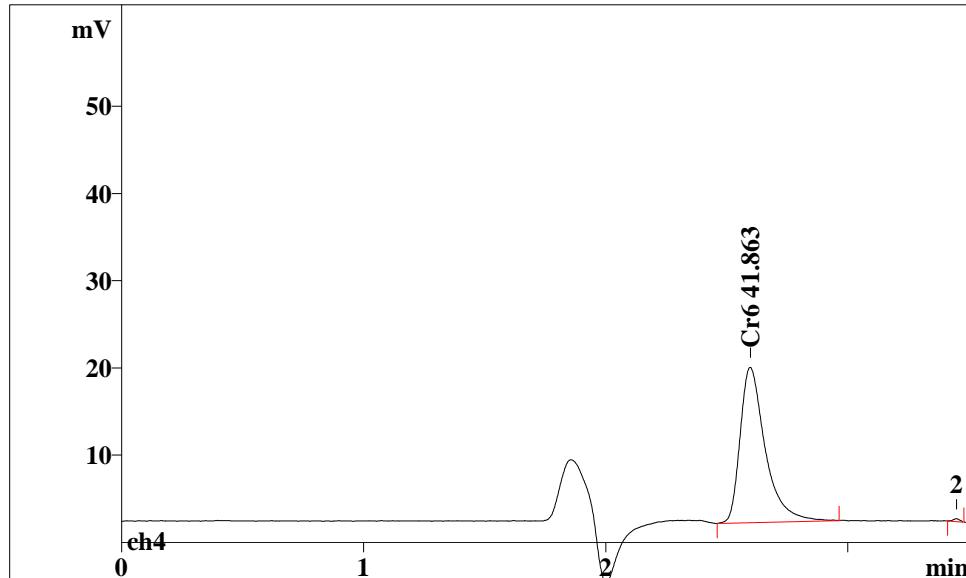
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Report date: 12/18/2012 11:31:09 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: LCSS 460-140206/2-A@25  
 Analysis from: 12/17/2012 6:23:33 PM  
 File: wc171823.chw Last save: 12/17/2012 4:24:17 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40278  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 11  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.3 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
	min;	min;	mV;	%;	mV*sec;	%;		n,n+1;
1;	2.59;	0.101;	4.42;	95.56;	30.522;	98.16;	0.00;	0.00; 31

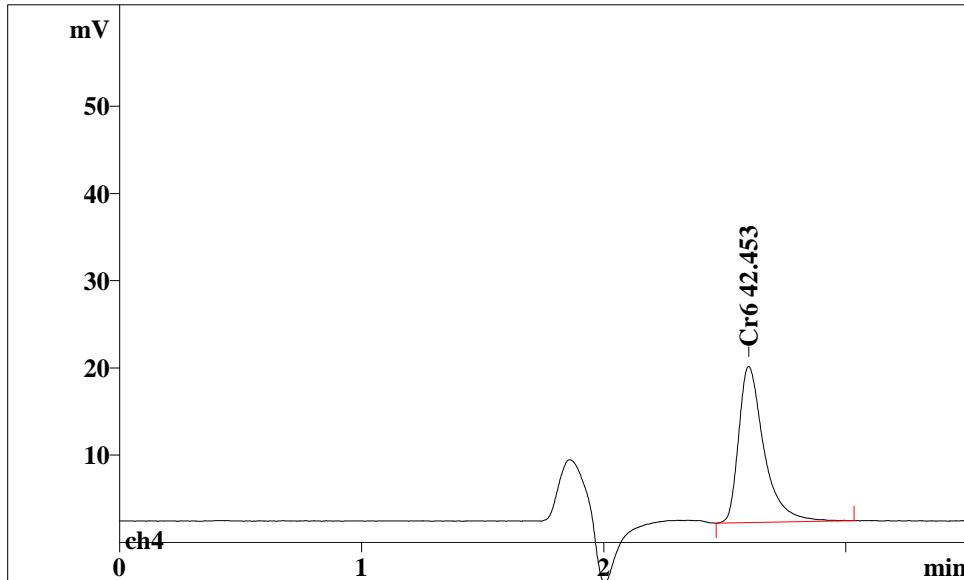
Report date: 12/18/2012 11:31:13 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: LCSI 460-140206/3-A@500  
 Analysis from: 12/17/2012 6:31:48 PM  
 File: wc171831.chw Last save: 12/17/2012 4:24:18 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40279  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 12  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.60;	0.104;	17.83;	98.09;	128.449;	99.49;	0.00;	7.50;

29

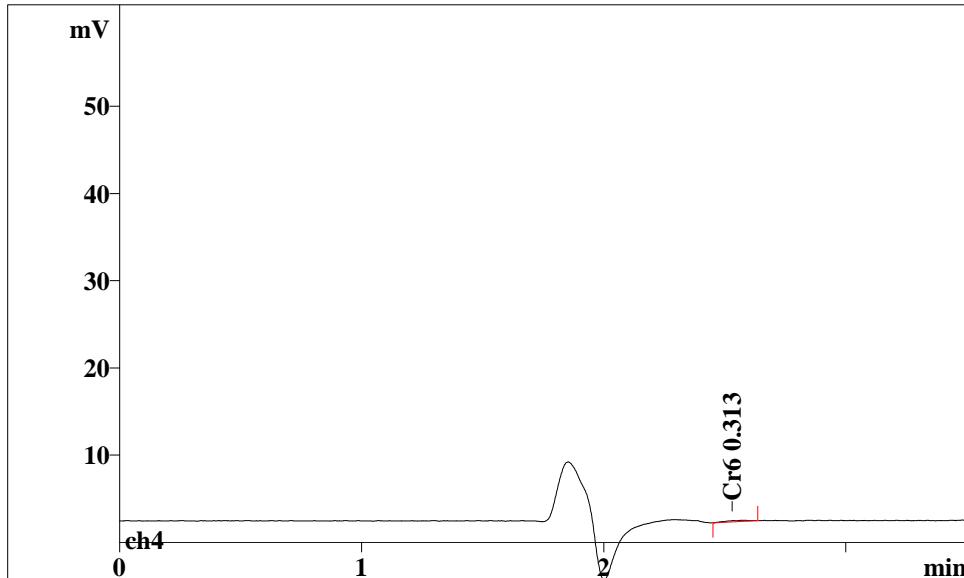
Report date: 12/18/2012 11:31:16 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: LCSI 460-140206/3-A@500  
 Analysis from: 12/17/2012 6:40:03 PM  
 File: wc171840.chw Last save: 12/17/2012 4:24:18 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40280  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 13  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.60; 0.105; 17.94; 100.00; 130.259; 100.00; 0.00; 0.00; 28
  
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Report date: 12/18/2012 11:31:23 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-14-E@10  
 Analysis from: 12/17/2012 6:48:20 PM  
 File: wc171848.chw Last save: 12/17/2012 4:24:18 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40281  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 14  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.5 MPa



No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;  
 ; min; min; mV; %; mV\*sec; %; ; n,n+1;  
 1; 2.53; 0.118; 0.15; 98.49; 0.962; 100.00; 0.00; 0.00; 34

Report date: 12/18/2012 11:31:26 AM  
Printed by: TestAmerica - Edison

Ident: 480-29484-B-14-E@10  
Analysis from: 12/17/2012 6:56:38 PM  
File: wc171856.chw Last save: 12/17/2012 4:24:18 PM

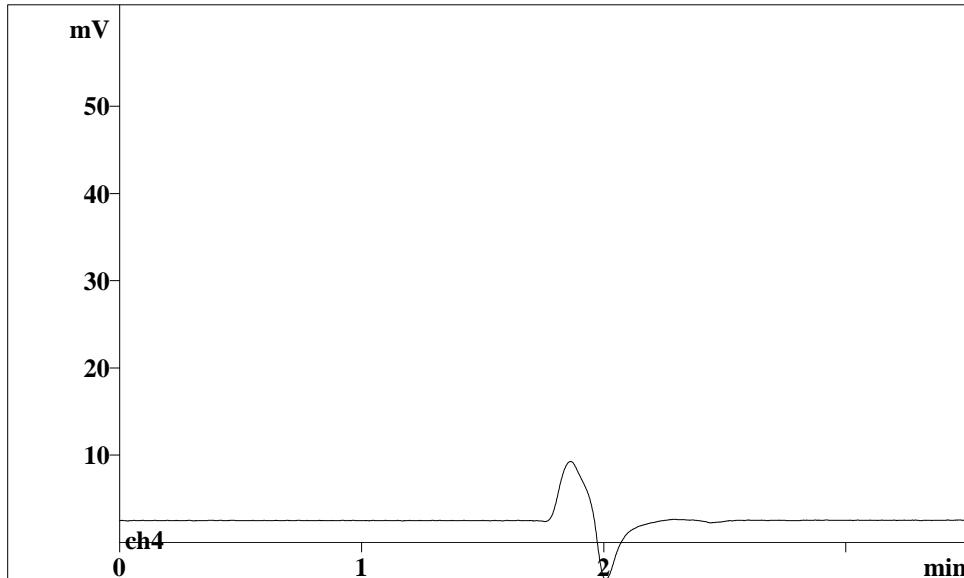
Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
Run operator: TestAmerica - Edison  
Analysis number: 40282

SAMPLE: 100ul loop  
:  
Vial number: 15  
Volume: 1.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000

COLUMN: A Supp 5-150  
Size: 4.6 x 150 mm  
Number:  
Part.size: 7.0  $\mu$ m

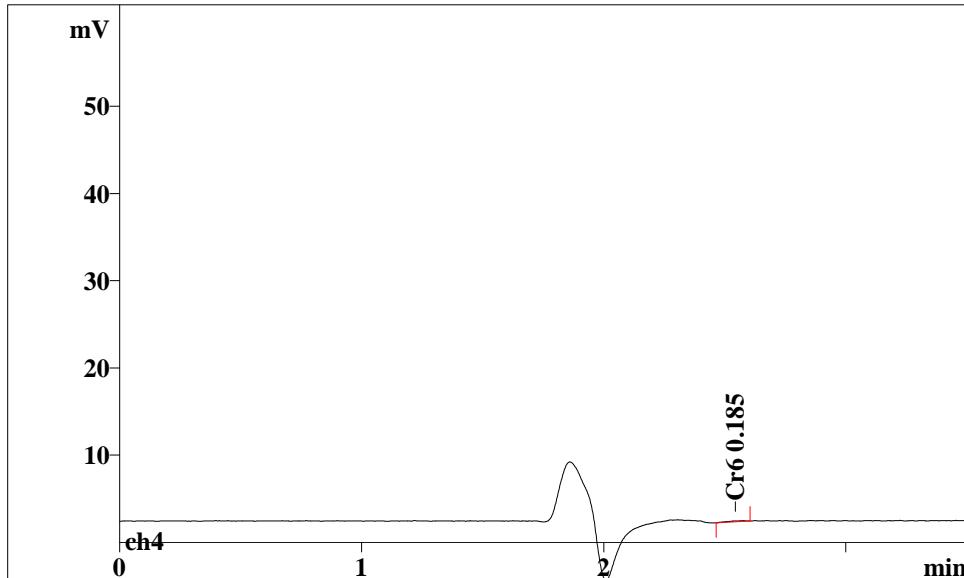
ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min  
Temperature: 30.0°C  
Pressure: 8.6 MPa



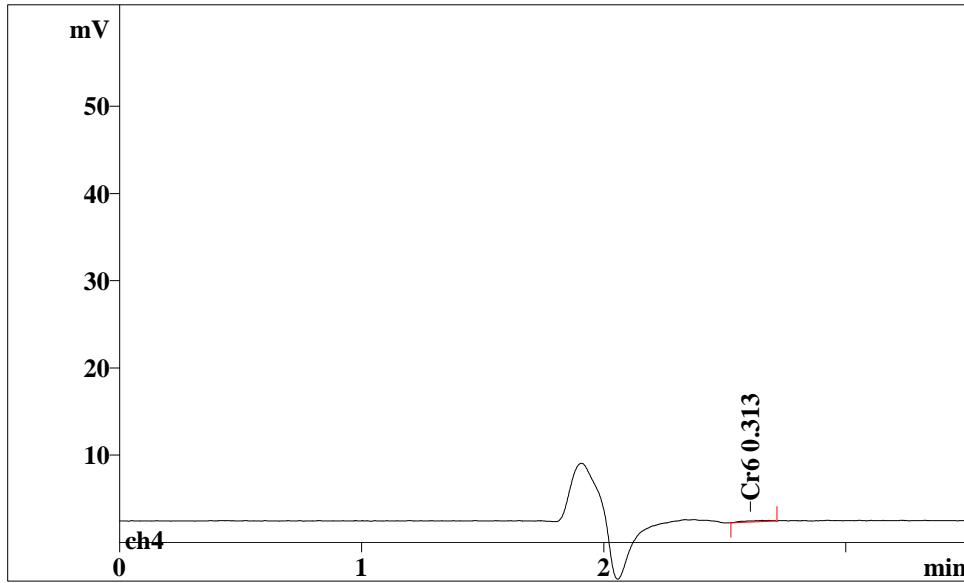
No peaks

Report date: 12/18/2012 11:31:30 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-14-F DU@10  
 Analysis from: 12/17/2012 7:04:55 PM  
 File: wc171904.chw Last save: 12/17/2012 4:24:18 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40283  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 16  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.54;	0.100;	0.11;	98.61;	0.567;	100.00;	0.00;	0.00; 59

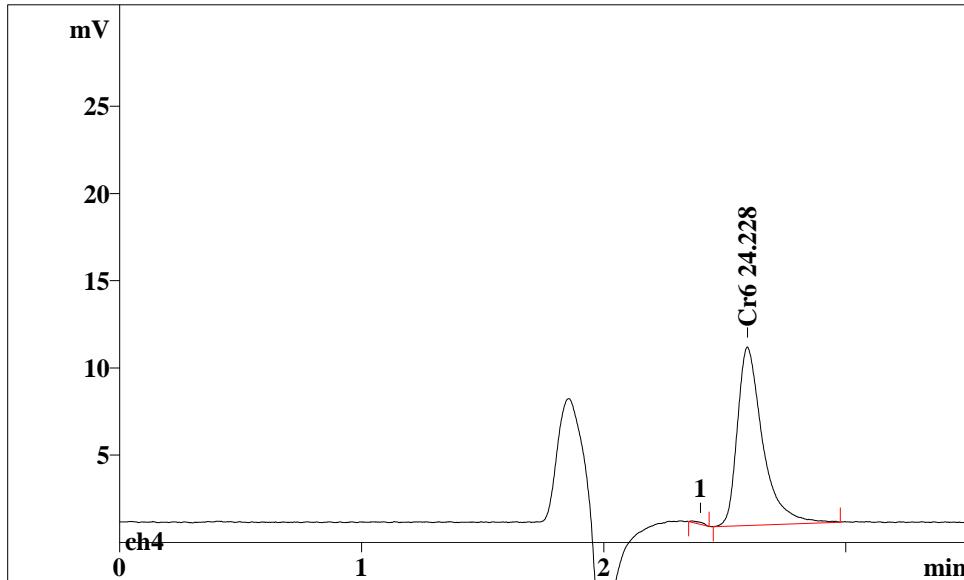
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 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-14-F DU@10  
 Analysis from: 12/17/2012 7:13:13 PM  
 File: wc171913.chw Last save: 12/17/2012 4:24:18 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40284  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 17  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.5 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.60;	0.143;	0.13;	95.78;	0.960;	100.00;	0.00;	0.00;

29

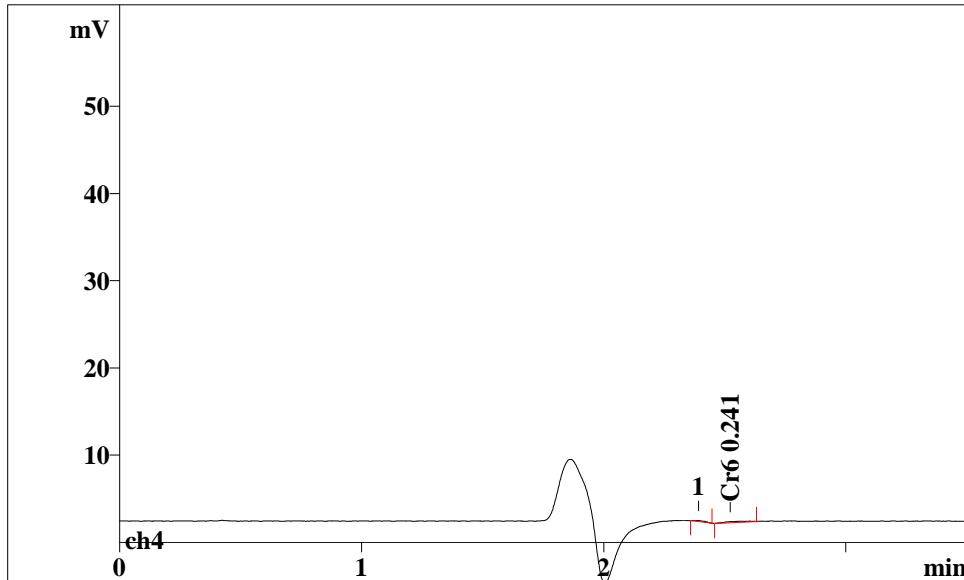
Report date: 12/18/2012 11:31:36 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: CCV  
 Analysis from: 12/17/2012 7:21:32 PM  
 File: wc171921.chw Last save: 12/17/2012 4:24:18 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40285  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 18  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.59;	0.104;	10.23;	98.73;	74.340;	99.47;	0.00;	0.00;

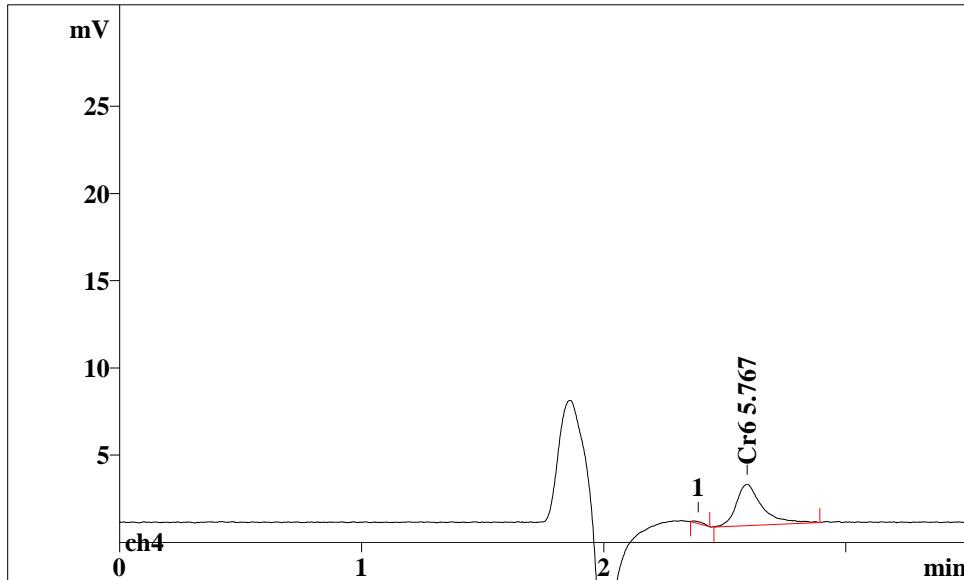
28

Report date: 12/18/2012 11:31:39 AM  
 Printed by: TestAmerica - Edison  
 Ident: CCB  
 Analysis from: 12/17/2012 7:29:51 PM  
 File: wc171929.chw Last save: 12/17/2012 4:24:19 PM  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40286  
 SAMPLE: 100ul loop  
 :  
 Vial number: 19  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K'; Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;
1;	2.52;	0.091;	0.13;	46.49;	0.739;	59.88;	n,n+1;
							0.00;
							0.00; 42

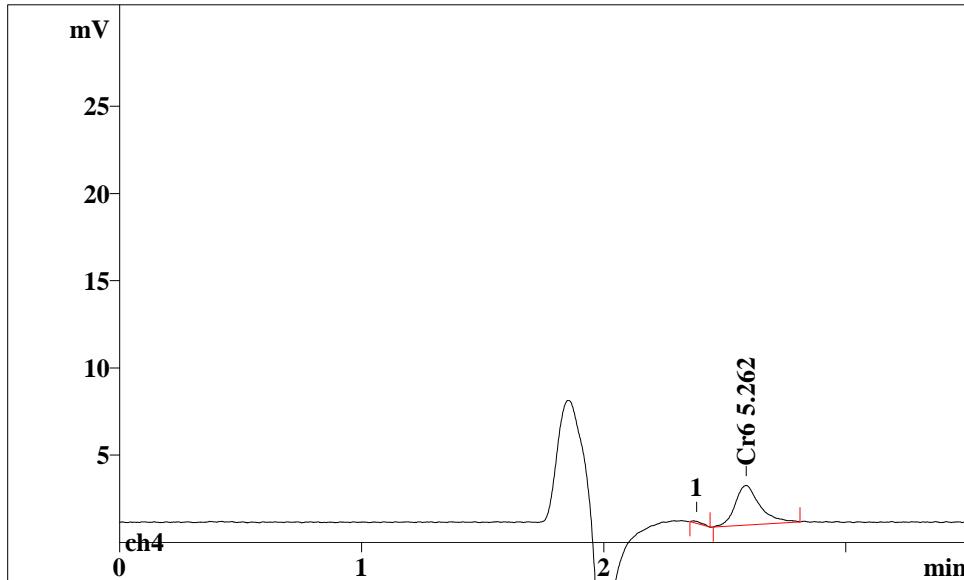
Report date: 12/18/2012 11:31:42 AM  
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 Ident: 480-29484-B-14-G MSS@40  
 Analysis from: 12/17/2012 7:38:10 PM  
 File: wc171938.chw Last save: 12/17/2012 4:24:19 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40287  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 20  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.59;	0.103;	2.37;	95.37;	17.695;	98.08;	0.00;	0.00;

27

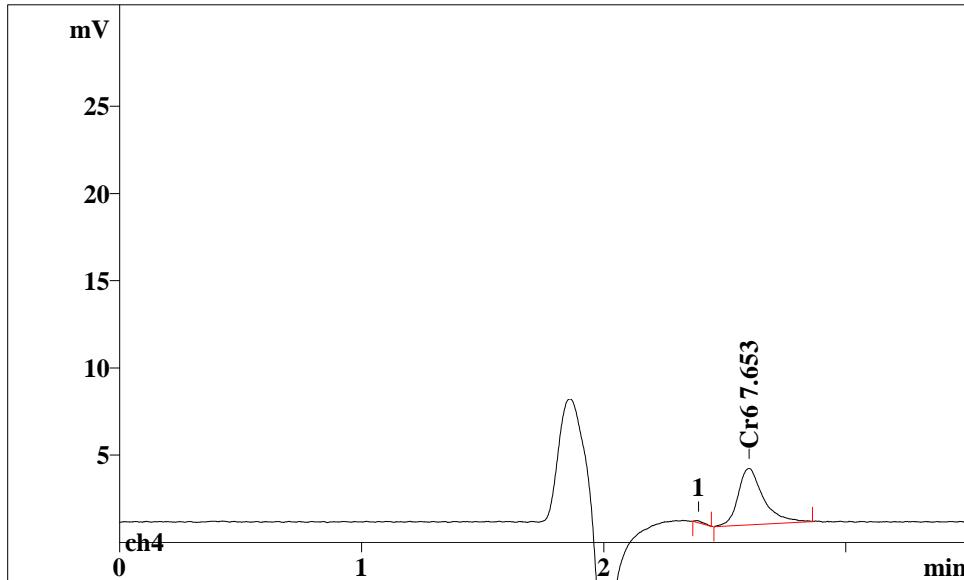
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 Ident: 480-29484-B-14-G MSS@40  
 Analysis from: 12/17/2012 7:46:29 PM  
 File: wc171946.chw Last save: 12/17/2012 4:24:19 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40288  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 21  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.59;	0.102;	2.27;	94.89;	16.147;	97.84;	0.00;	0.00;

29

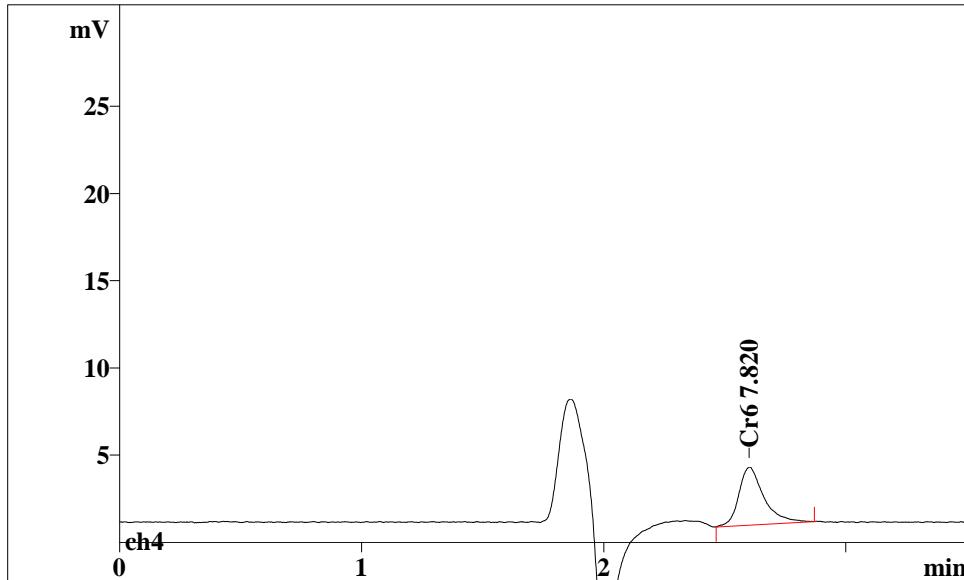
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 Analysis from: 12/17/2012 7:54:48 PM  
 File: wc171954.chw Last save: 12/17/2012 4:24:19 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40289  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 22  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.60;	0.103;	3.24;	96.16;	23.481;	98.75;	0.00;	0.00;

29

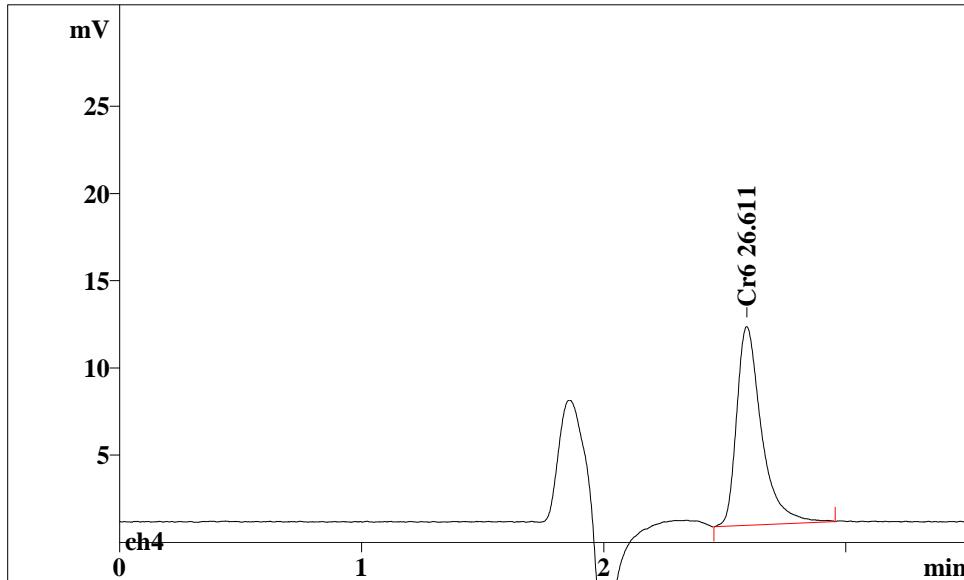
Report date: 12/18/2012 11:31:52 AM  
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 Ident: 480-29484-B-14-H MSI@500  
 Analysis from: 12/17/2012 8:03:07 PM  
 File: wc172003.chw Last save: 12/17/2012 4:24:19 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40290  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 23  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.60;	0.103;	3.33;	100.06;	23.995;	100.00;	0.00;	0.00;

29

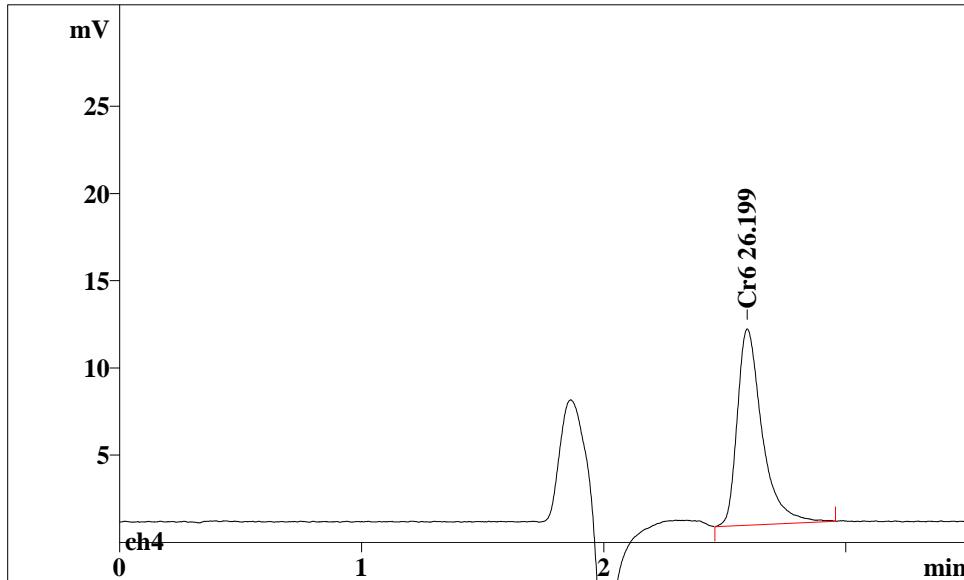
Report date: 12/18/2012 11:31:55 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-14-E PDS@40  
 Analysis from: 12/17/2012 8:11:26 PM  
 File: wc172011.chw Last save: 12/17/2012 4:24:19 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40291  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 24  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.59; 0.103; 11.40; 100.00; 81.649; 100.00; 0.00; 0.00; 29
  
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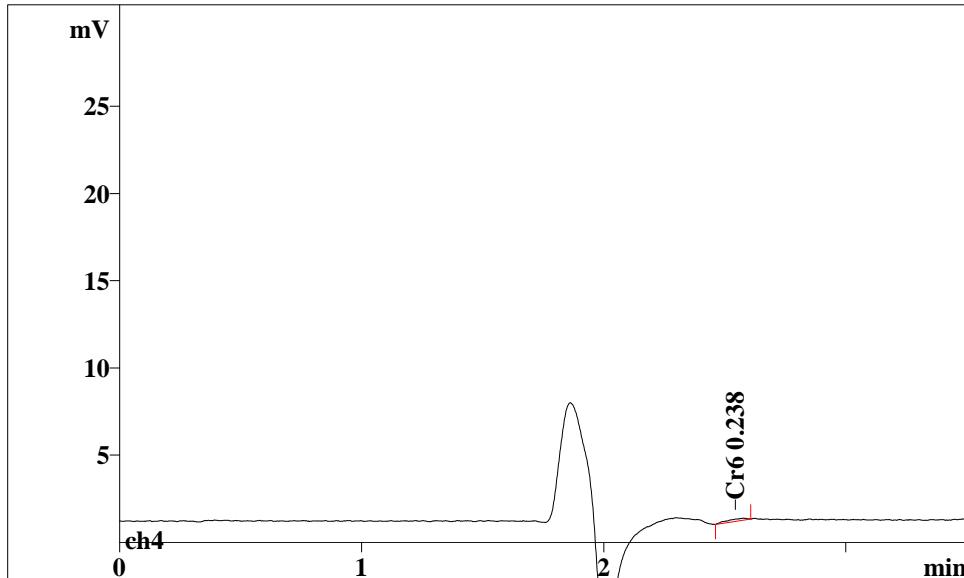
Report date: 12/18/2012 11:32:00 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-14-E PDS@40  
 Analysis from: 12/17/2012 8:19:44 PM  
 File: wc172019.chw Last save: 12/17/2012 4:24:20 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40292  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 25  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.3 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.59;	0.103;	11.25;	99.97;	80.387;	100.00;	0.00;	0.00;

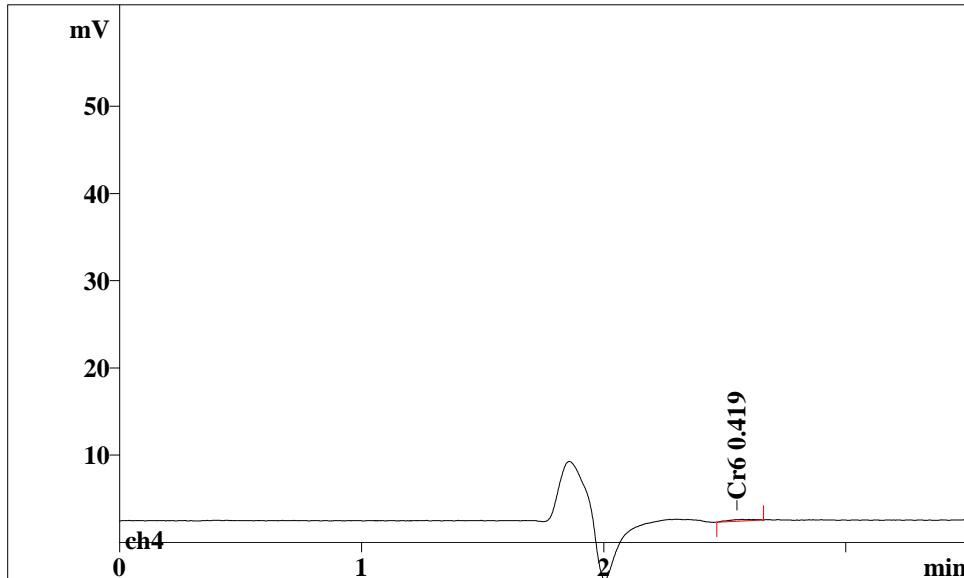
29

Report date: 12/18/2012 11:32:03 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-1-B@10  
 Analysis from: 12/17/2012 8:28:03 PM  
 File: wc172028.chw Last save: 12/17/2012 4:24:20 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40293  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 26  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.3 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K'; Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;
1;	2.54;	0.109;	0.12;	97.47;	0.731;	100.00;	n,n+1;
					0.00;	0.00;	42

Report date: 12/18/2012 11:32:06 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-1-B@10  
 Analysis from: 12/17/2012 8:36:22 PM  
 File: wc172036.chw Last save: 12/17/2012 4:24:20 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40294  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 27  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.55; 0.121; 0.18; 96.15; 1.284; 100.00; 0.00; 0.00; 31
  
```

Report date: 12/18/2012 11:32:09 AM  
Printed by: TestAmerica - Edison

Ident: 480-29484-B-2-B@10  
Analysis from: 12/17/2012 8:44:40 PM  
File: wc172044.chw Last save: 12/17/2012 4:24:20 PM

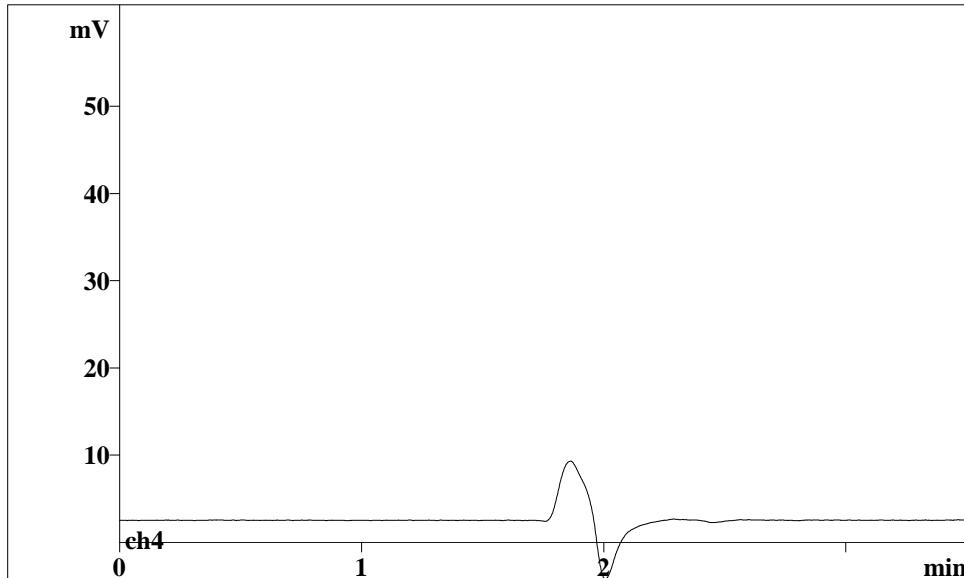
Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
Run operator: TestAmerica - Edison  
Analysis number: 40295

SAMPLE: 100ul loop  
:  
Vial number: 28  
Volume: 1.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000

COLUMN: A Supp 5-150  
Size: 4.6 x 150 mm  
Number:  
Part.size: 7.0  $\mu$ m

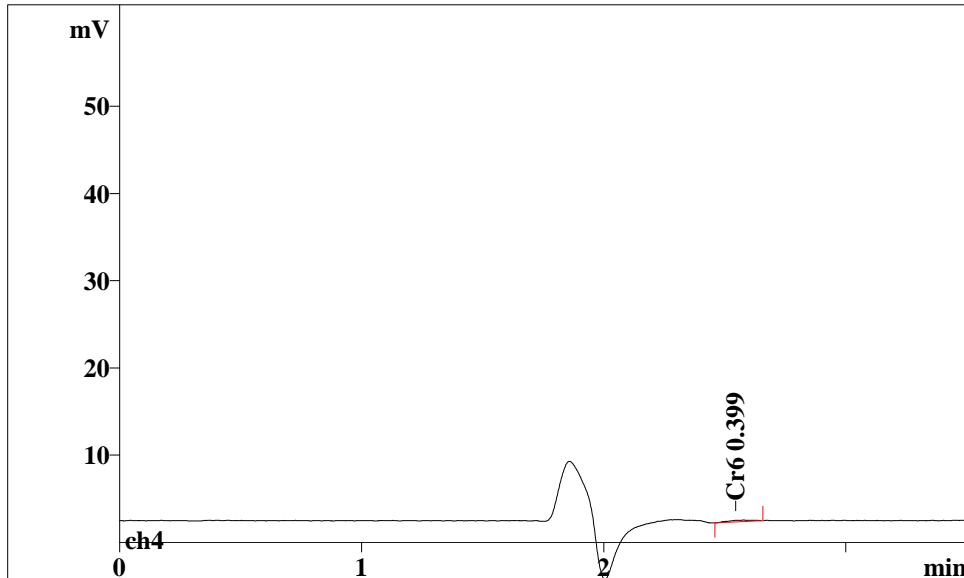
ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min  
Temperature: 30.0°C  
Pressure: 8.6 MPa



No peaks

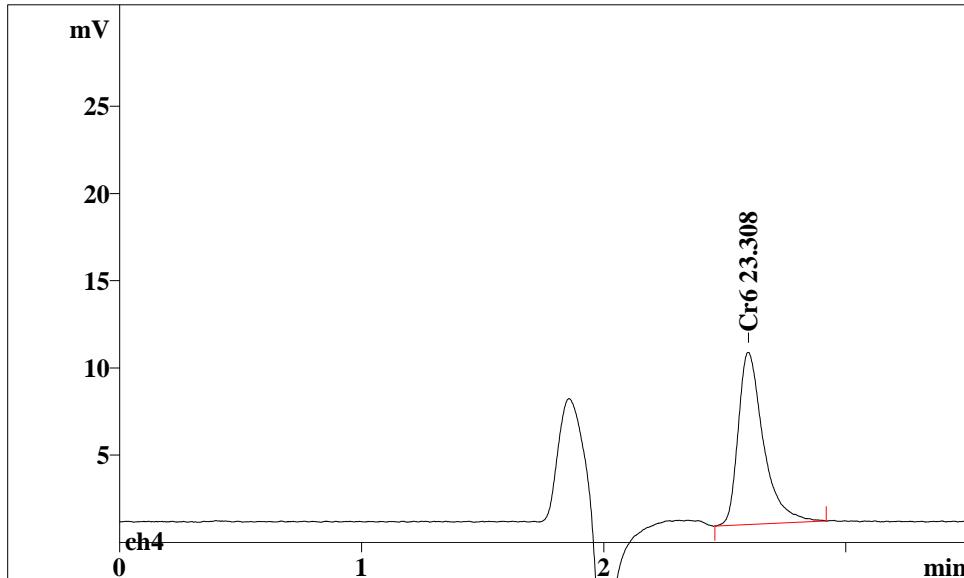
Report date: 12/18/2012 11:32:12 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-2-B@10  
 Analysis from: 12/17/2012 8:52:57 PM  
 File: wc172052.chw Last save: 12/17/2012 4:24:20 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40296  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 29  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.55; 0.122; 0.18; 99.14; 1.223; 100.00; 0.00; 0.00; 31
  
```

Report date: 12/18/2012 11:32:16 AM  
 Printed by: TestAmerica - Edison  
 Ident: CCV  
 Analysis from: 12/17/2012 9:01:14 PM  
 File: wc172101.chw Last save: 12/17/2012 4:24:20 PM  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40297  
 SAMPLE: 100ul loop  
 :  
 Vial number: 30  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.60;	0.104;	9.89;	100.02;	71.516;	100.00;	0.00;	0.00;

29

Report date: 12/18/2012 11:32:18 AM  
Printed by: TestAmerica - Edison

Ident: CCB  
Analysis from: 12/17/2012 9:09:30 PM  
File: wc172109.chw Last save: 12/17/2012 4:24:20 PM

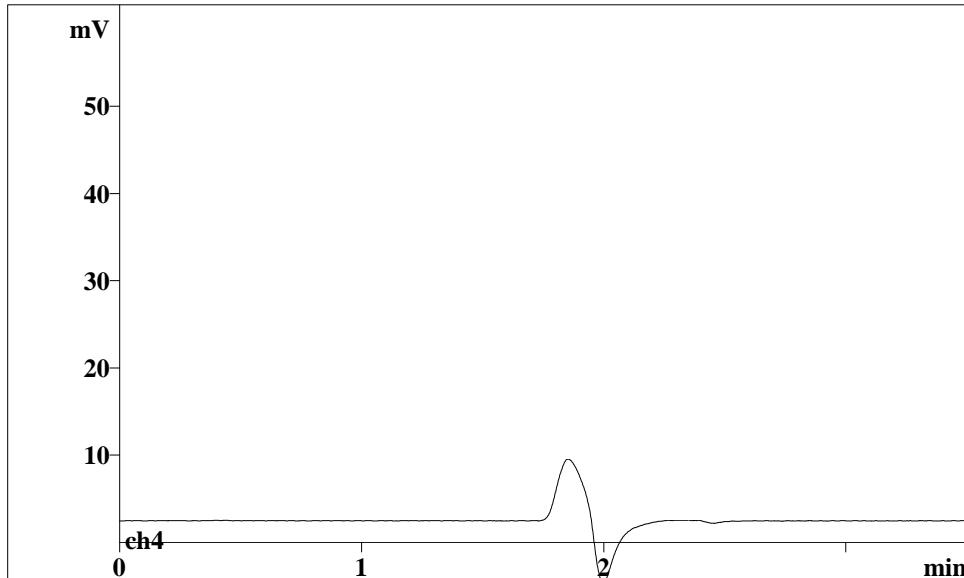
Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
Run operator: TestAmerica - Edison  
Analysis number: 40298

SAMPLE: 100ul loop  
:  
Vial number: 31  
Volume: 1.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000

COLUMN: A Supp 5-150  
Size: 4.6 x 150 mm  
Number:  
Part.size: 7.0  $\mu$ m

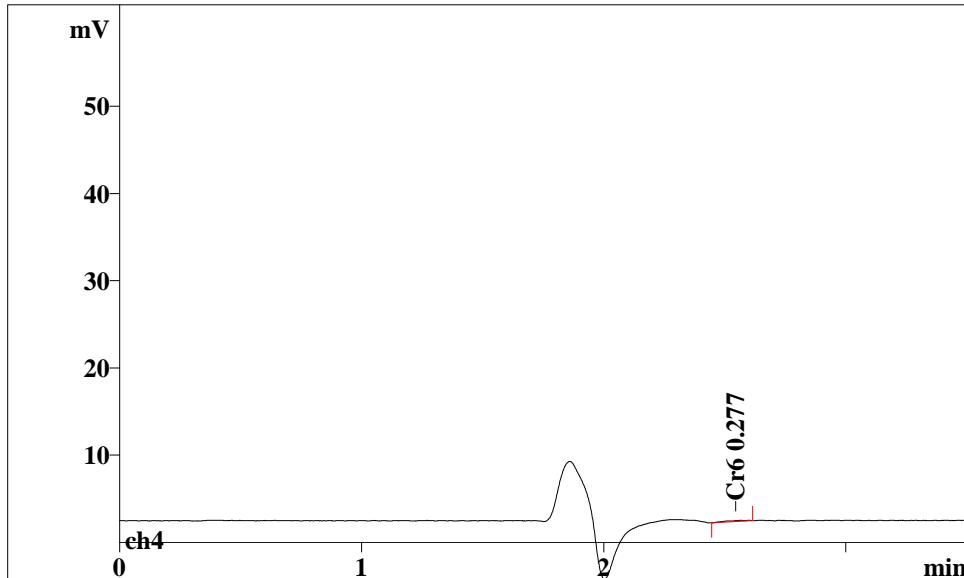
ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min  
Temperature: 30.0°C  
Pressure: 8.5 MPa



No peaks

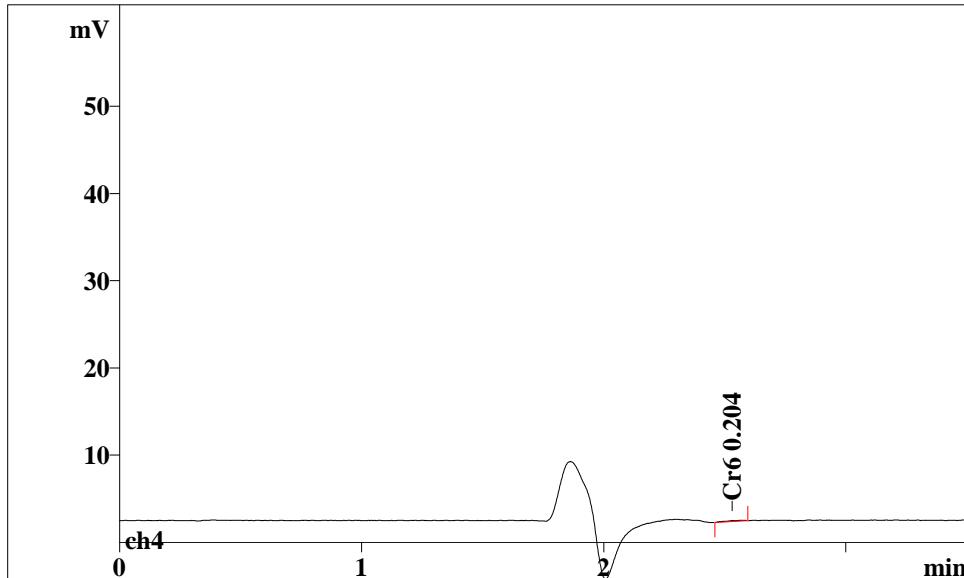
Report date: 12/18/2012 11:32:22 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-3-B@10  
 Analysis from: 12/17/2012 9:17:46 PM  
 File: wc172117.chw Last save: 12/17/2012 4:24:21 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40299  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 32  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



```

No; Retention; Width/2; Height; Height;      Area;      Area;      K'; Resolution;
;           min;     min;     mV;     %;   mV*sec;     %; ;       n,n+1;
1;        2.55;    0.132;    0.12;    96.74;    0.851; 100.00;  0.00;    0.00;    31
  
```

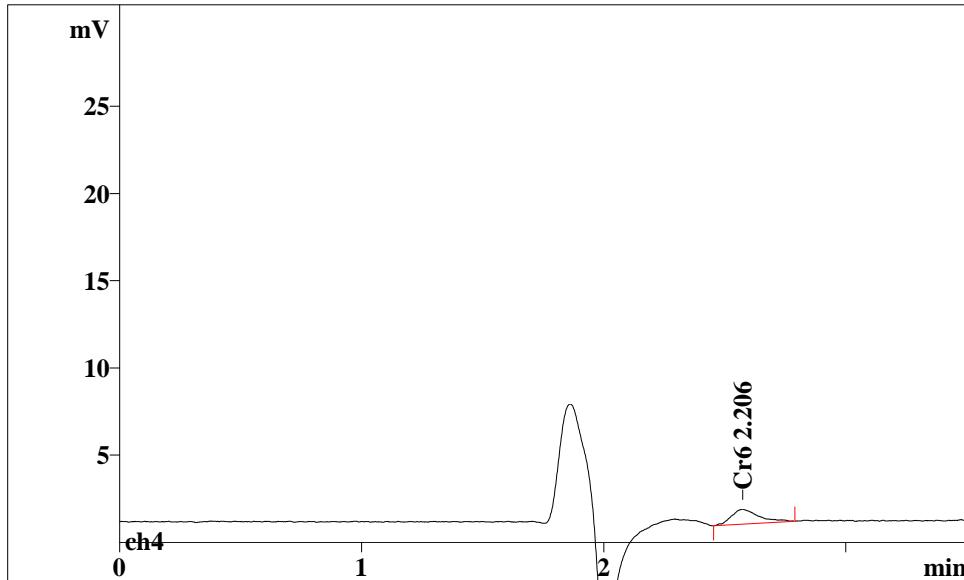
Report date: 12/18/2012 11:32:25 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-3-B@10  
 Analysis from: 12/17/2012 9:26:01 PM  
 File: wc172126.chw Last save: 12/17/2012 4:24:21 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40300  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 33  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.5 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.53; 0.105; 0.12; 91.28; 0.627; 100.00; 0.00; 0.00; 67
  
```

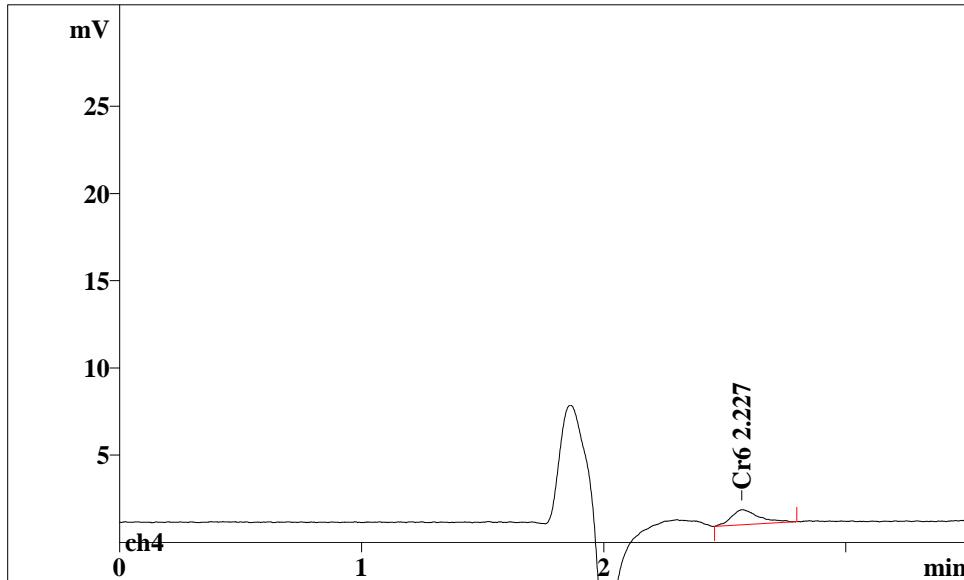
Report date: 12/18/2012 11:32:28 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-C-4-B@10  
 Analysis from: 12/17/2012 9:34:15 PM  
 File: wc172134.chw Last save: 12/17/2012 4:24:21 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40301  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 34  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.57;	0.114;	0.86;	99.79;	6.769;	100.00;	0.00;	0.00;

24

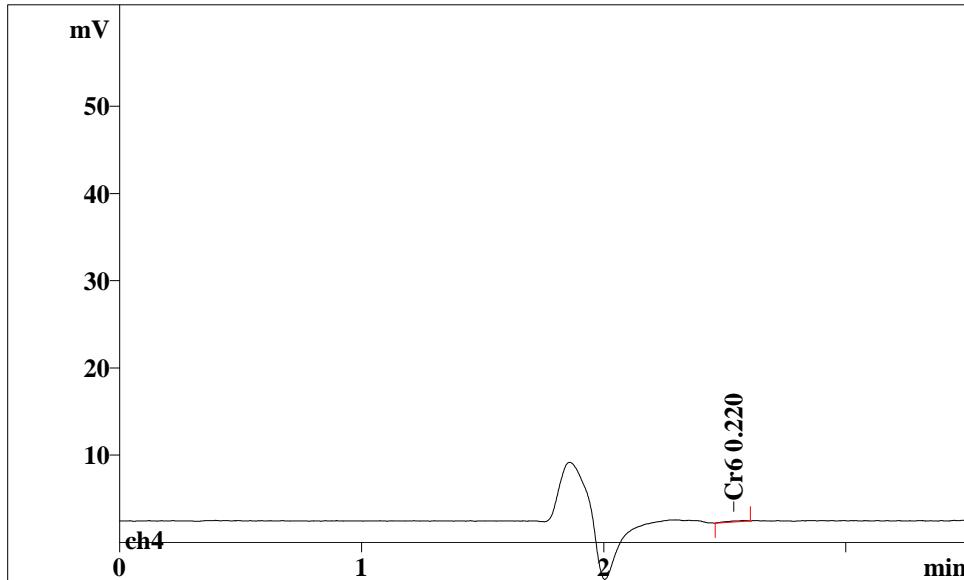
Report date: 12/18/2012 11:32:31 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-C-4-B@10  
 Analysis from: 12/17/2012 9:42:28 PM  
 File: wc172142.chw Last save: 12/17/2012 4:24:21 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40302  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 35  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.57;	0.112;	0.87;	99.72;	6.832;	100.00;	0.00;	0.00;

24

Report date: 12/18/2012 11:32:34 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-C-5-B@10  
 Analysis from: 12/17/2012 9:50:41 PM  
 File: wc172150.chw Last save: 12/17/2012 4:24:21 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40303  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 36  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.54; 0.108; 0.12; 98.31; 0.675; 100.00; 0.00; 0.00; 46
  
```

Report date: 12/18/2012 11:32:37 AM  
Printed by: TestAmerica - Edison

Ident: 480-29484-C-5-B@10  
Analysis from: 12/17/2012 9:58:54 PM  
File: wc172158.chw Last save: 12/17/2012 4:24:21 PM

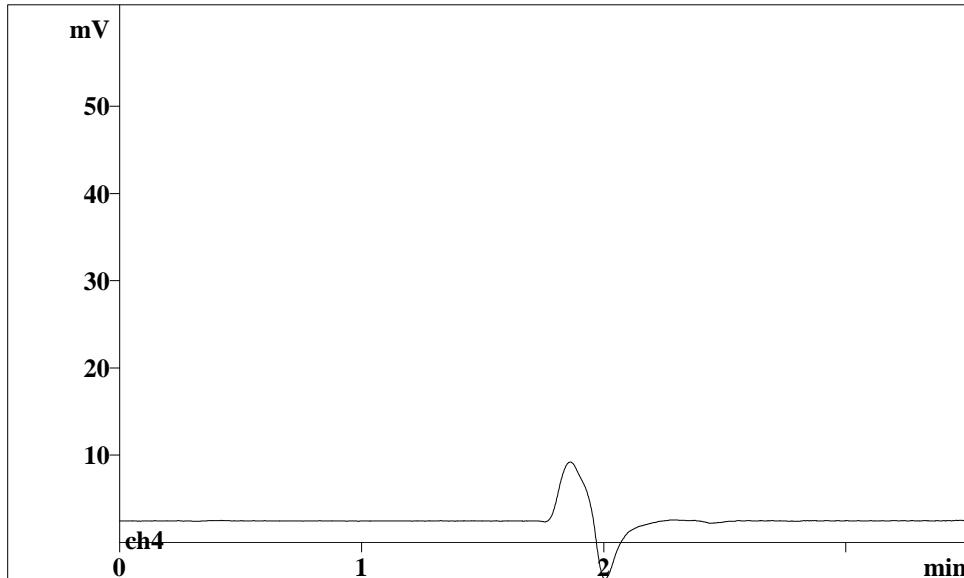
Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
Run operator: TestAmerica - Edison  
Analysis number: 40304

SAMPLE: 100ul loop  
:  
Vial number: 37  
Volume: 1.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000

COLUMN: A Supp 5-150  
Size: 4.6 x 150 mm  
Number:  
Part.size: 7.0  $\mu$ m

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min  
Temperature: 30.0°C  
Pressure: 8.5 MPa



No peaks

Report date: 12/18/2012 11:32:40 AM  
Printed by: TestAmerica - Edison

Ident: 480-29484-B-6-B@10  
Analysis from: 12/17/2012 10:07:06 PM  
File: wc172207.chw Last save: 12/17/2012 4:24:22 PM

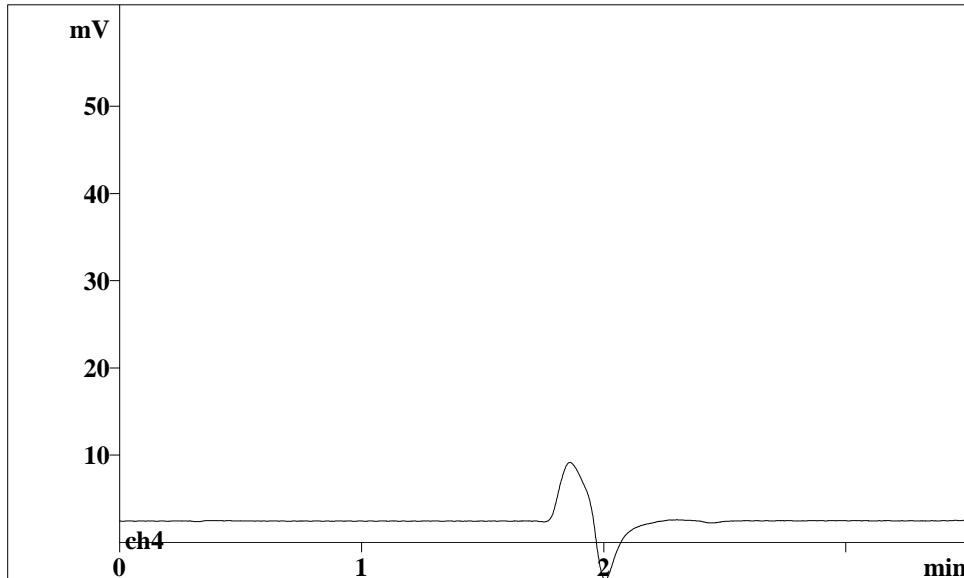
Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
Run operator: TestAmerica - Edison  
Analysis number: 40305

SAMPLE: 100ul loop  
:  
Vial number: 38  
Volume: 1.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000

COLUMN: A Supp 5-150  
Size: 4.6 x 150 mm  
Number:  
Part.size: 7.0  $\mu$ m

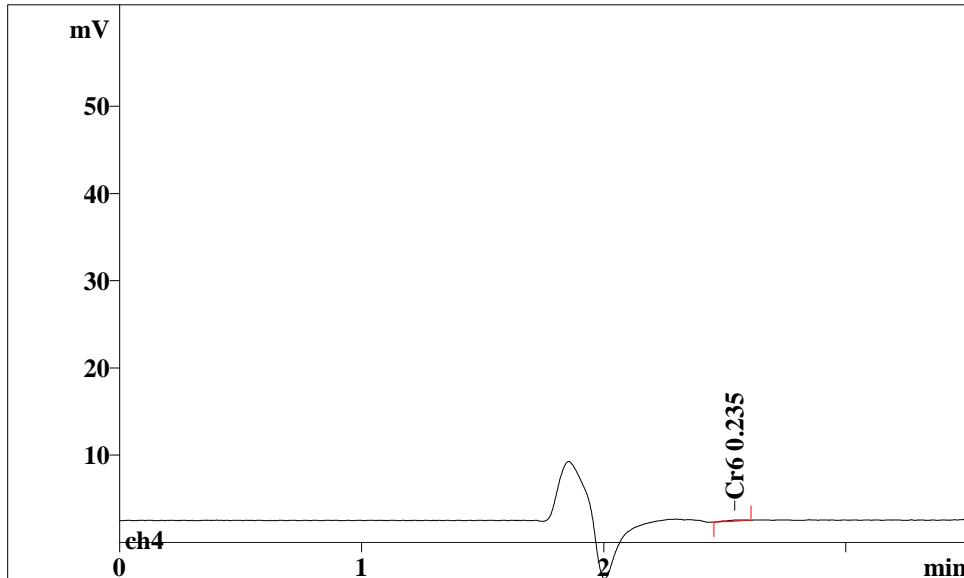
ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min  
Temperature: 30.0°C  
Pressure: 8.2 MPa



No peaks

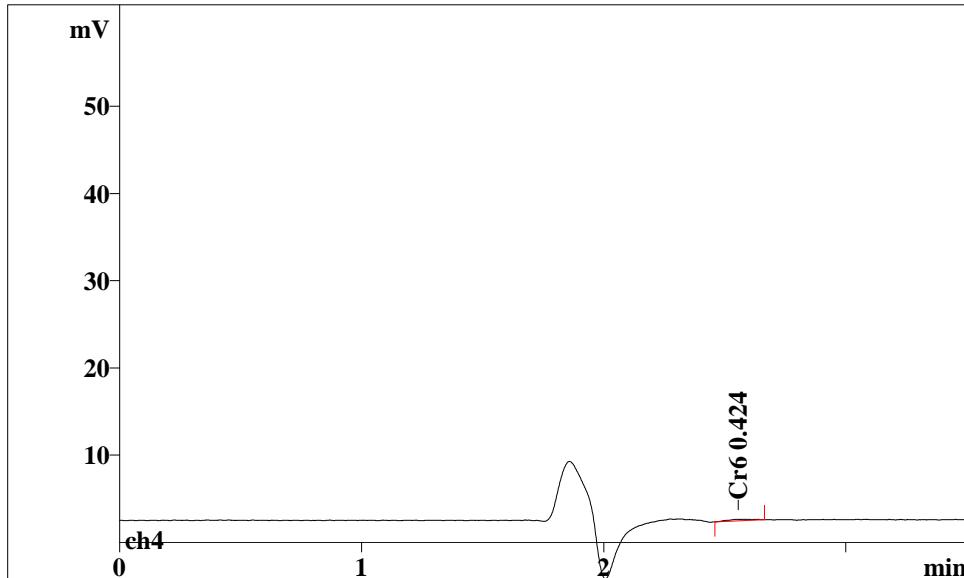
Report date: 12/18/2012 11:32:43 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-6-B@10  
 Analysis from: 12/17/2012 10:15:17 PM  
 File: wc172215.chw Last save: 12/17/2012 4:24:22 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40306  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 39  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.54;	0.113;	0.12;	97.25;	0.720;	100.00;	0.00;	0.00;

45

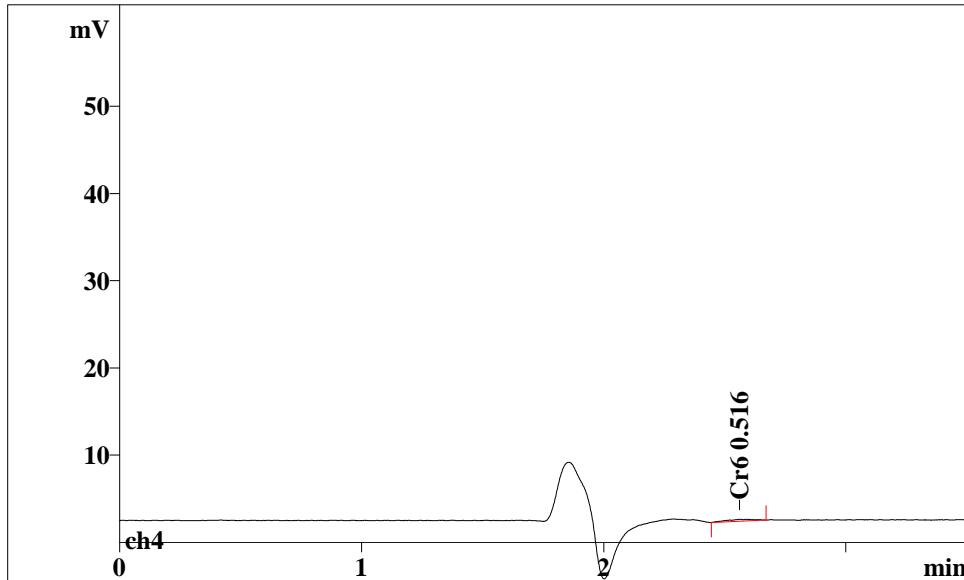
Report date: 12/18/2012 11:32:46 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-C-7-B@10  
 Analysis from: 12/17/2012 10:23:27 PM  
 File: wc172223.chw Last save: 12/17/2012 4:24:22 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40307  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 40  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.55; 0.119; 0.19; 97.23; 1.301; 100.00; 0.00; 0.00; 32
  
```

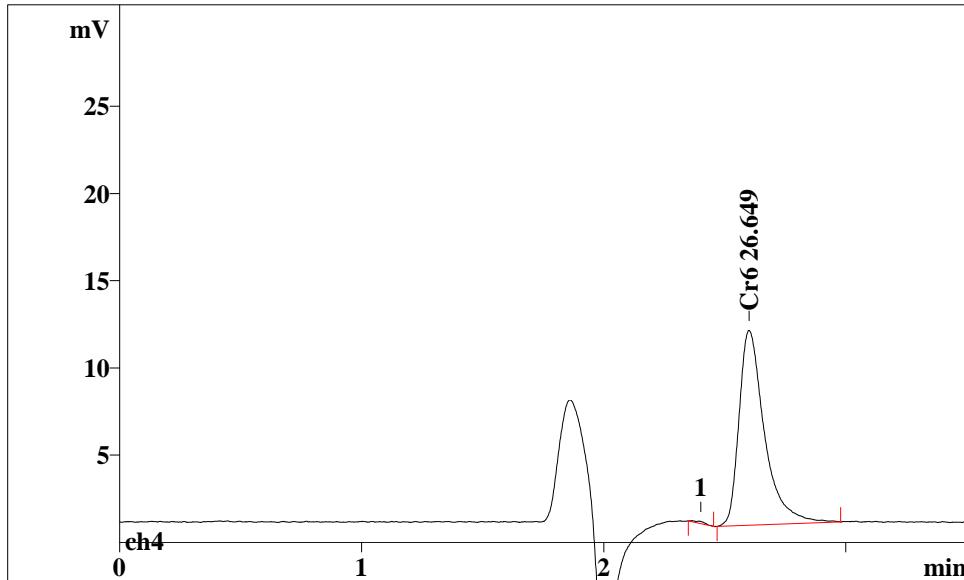
Report date: 12/18/2012 11:32:49 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-C-7-B@10  
 Analysis from: 12/17/2012 10:31:37 PM  
 File: wc172231.chw Last save: 12/17/2012 4:24:22 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40308  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 41  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.56; 0.127; 0.21; 98.52; 1.583; 100.00; 0.00; 0.00; 26
  
```

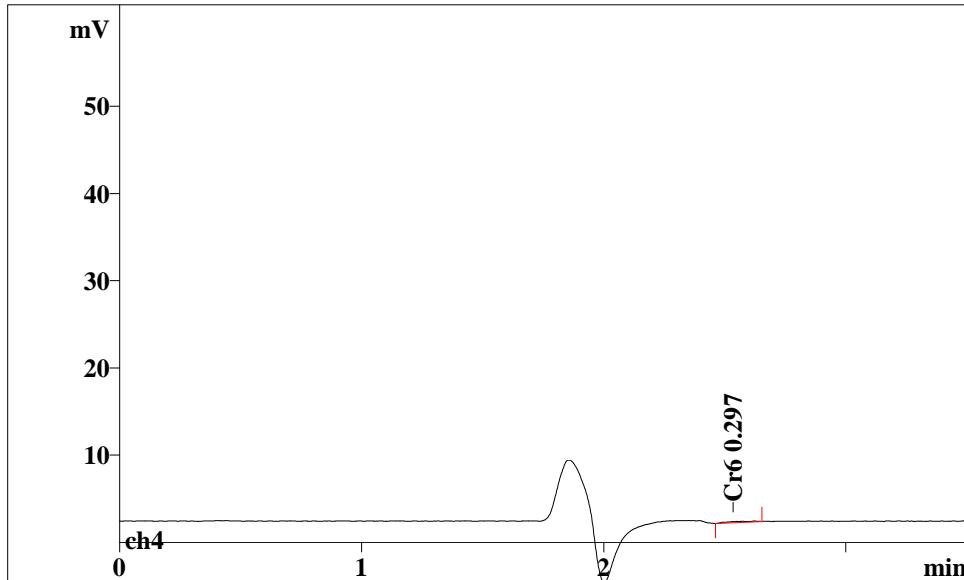
Report date: 12/18/2012 11:32:52 AM  
 Printed by: TestAmerica - Edison  
 Ident: CCV  
 Analysis from: 12/17/2012 10:39:47 PM  
 File: wc172239.chw Last save: 12/17/2012 4:24:22 PM  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40309  
 SAMPLE: 100ul loop  
 :  
 Vial number: 42  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.60;	0.105;	11.18;	98.74;	81.769;	99.52;	0.00;	0.00;

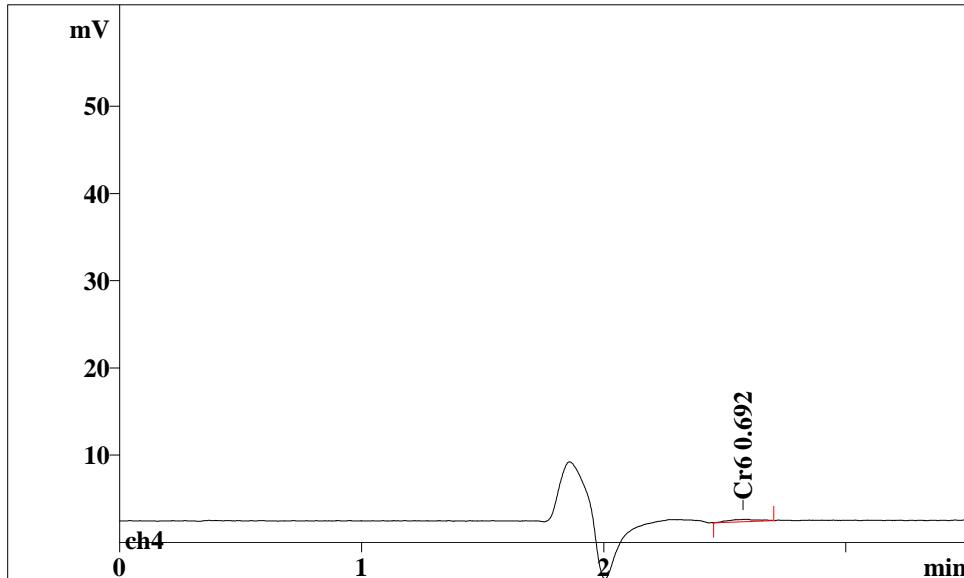
28

Report date: 12/18/2012 11:32:55 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: CCB  
 Analysis from: 12/17/2012 10:47:55 PM  
 File: wc172247.chw Last save: 12/17/2012 4:24:23 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40310  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 43  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.5 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K'; Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;
1;	2.54;	0.127;	0.13;	94.73;	0.911;	100.00;	n,n+1;
					0.00;	0.00;	31

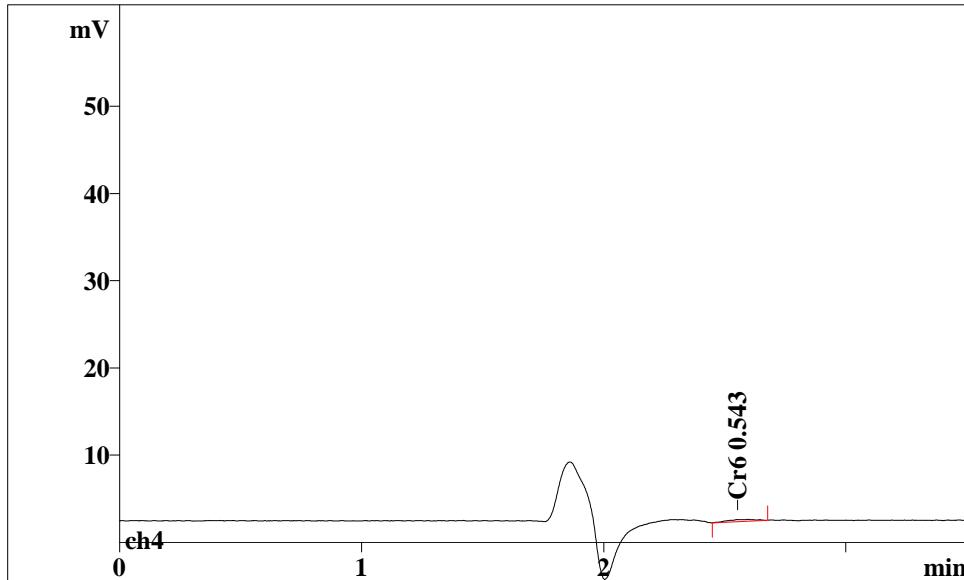
Report date: 12/18/2012 11:32:59 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-8-B@10  
 Analysis from: 12/17/2012 10:56:03 PM  
 File: wc172256.chw Last save: 12/17/2012 4:24:23 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40311  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 44  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.58; 0.148; 0.25; 96.91; 2.124; 100.00; 0.00; 0.00; 21
  
```

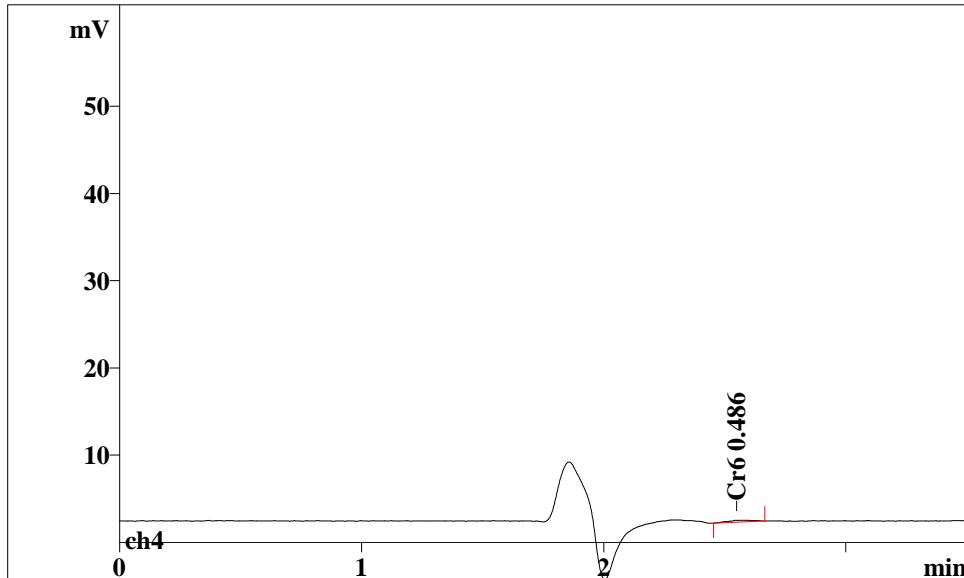
Report date: 12/18/2012 11:33:02 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-8-B@10  
 Analysis from: 12/17/2012 11:04:13 PM  
 File: wc172304.chw Last save: 12/17/2012 4:24:23 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40312  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 45  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.5 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.55; 0.124; 0.23; 94.16; 1.665; 100.00; 0.00; 0.00; 32
  
```

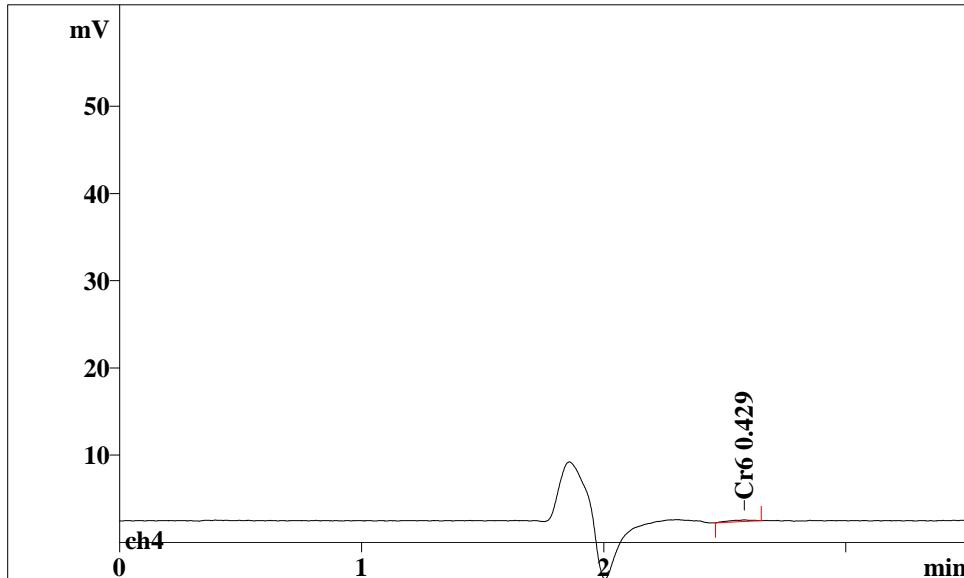
Report date: 12/18/2012 11:33:05 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-9-B@10  
 Analysis from: 12/17/2012 11:12:22 PM  
 File: wc172312.chw Last save: 12/17/2012 4:24:23 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40313  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 46  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.55; 0.128; 0.22; 98.80; 1.491; 100.00; 0.00; 0.00; 31
  
```

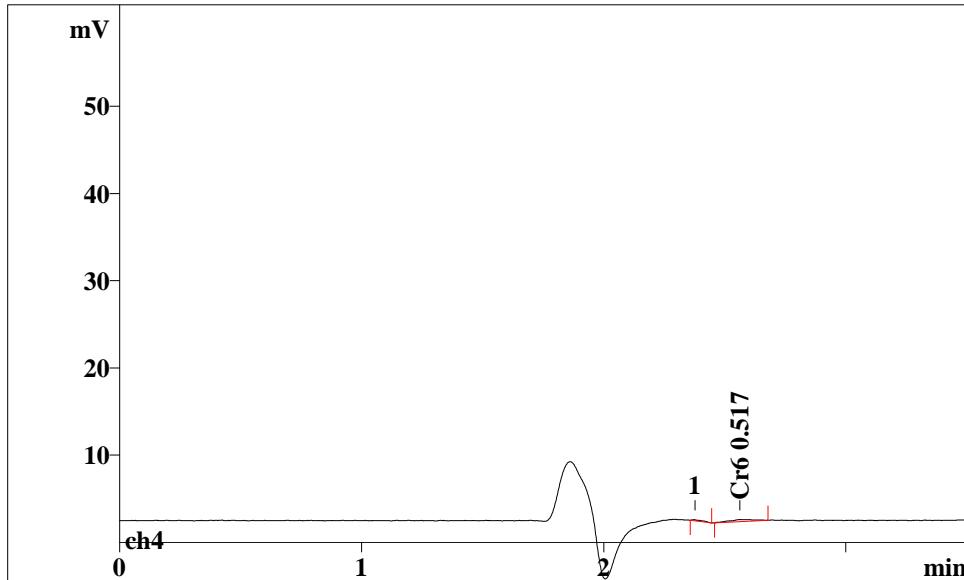
Report date: 12/18/2012 11:33:08 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-9-B@10  
 Analysis from: 12/17/2012 11:20:31 PM  
 File: wc172320.chw Last save: 12/17/2012 4:24:23 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40314  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 47  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



```

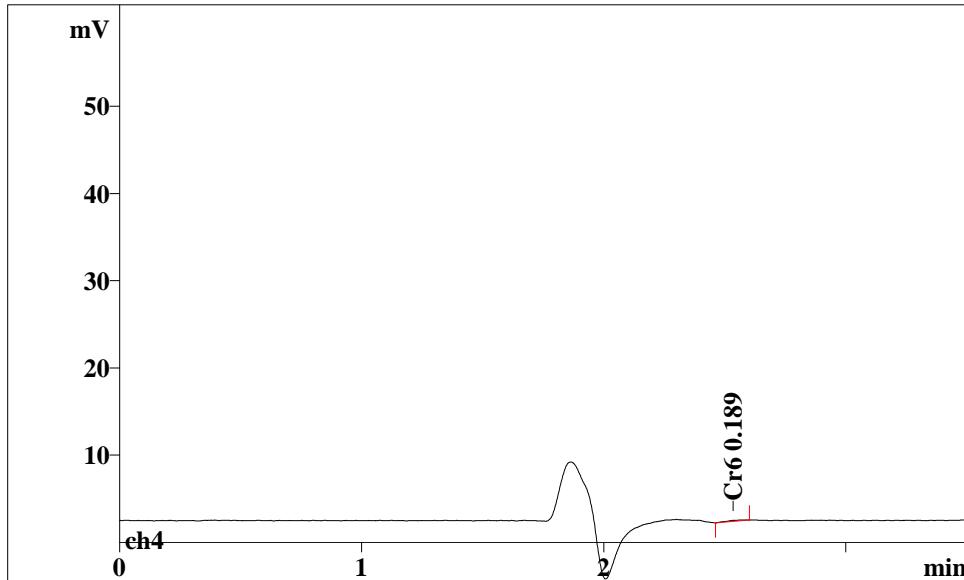
No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.58; 0.120; 0.19; 96.81; 1.315; 100.00; 0.00; 0.00; 33
  
```

Report date: 12/18/2012 11:33:11 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-10-B@10  
 Analysis from: 12/17/2012 11:28:41 PM  
 File: wc172328.chw Last save: 12/17/2012 4:24:23 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40315  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 48  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.4 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.56;	0.117;	0.24;	66.26;	1.588;	79.48;	0.00;	0.00; 33

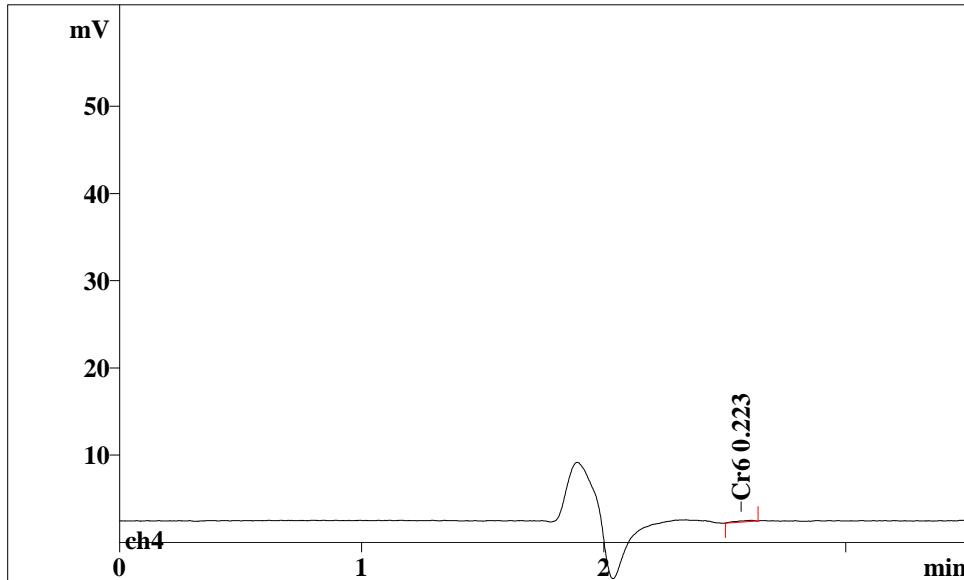
Report date: 12/18/2012 11:33:14 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-10-B@10  
 Analysis from: 12/17/2012 11:36:51 PM  
 File: wc172336.chw Last save: 12/17/2012 4:24:24 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40316  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 49  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



```

No; Retention; Width/2; Height; Height;      Area;      Area;      K'; Resolution;
;           min;       min;      mV;      %;   mV*sec;      %; ;       n,n+1;
1;        2.53;     0.094;    0.12;    96.34;    0.579; 100.00;  0.00;     0.00;    68
  
```

Report date: 12/18/2012 11:33:17 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-11-B@10  
 Analysis from: 12/17/2012 11:45:02 PM  
 File: wc172345.chw Last save: 12/17/2012 4:24:24 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40317  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 50  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.3 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.57;	0.101;	0.13;	98.59;	0.683;	100.00;	0.00;	0.00;

56

Report date: 12/18/2012 11:33:20 AM  
Printed by: TestAmerica - Edison

Ident: 480-29484-B-11-B@10  
Analysis from: 12/17/2012 11:53:14 PM  
File: wc172353.chw Last save: 12/17/2012 4:24:24 PM

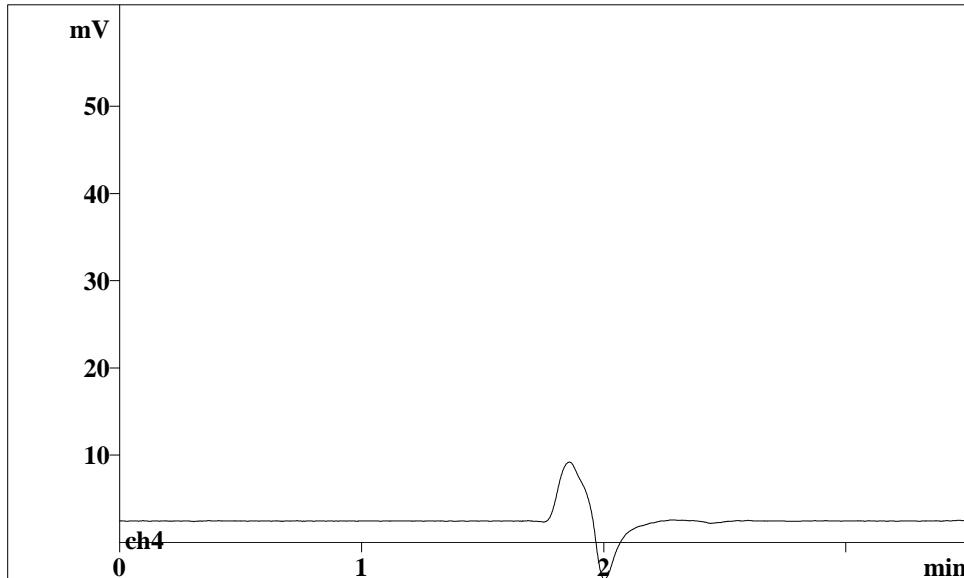
Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
Run operator: TestAmerica - Edison  
Analysis number: 40318

SAMPLE: 100ul loop  
:  
Vial number: 51  
Volume: 1.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000

COLUMN: A Supp 5-150  
Size: 4.6 x 150 mm  
Number:  
Part.size: 7.0  $\mu$ m

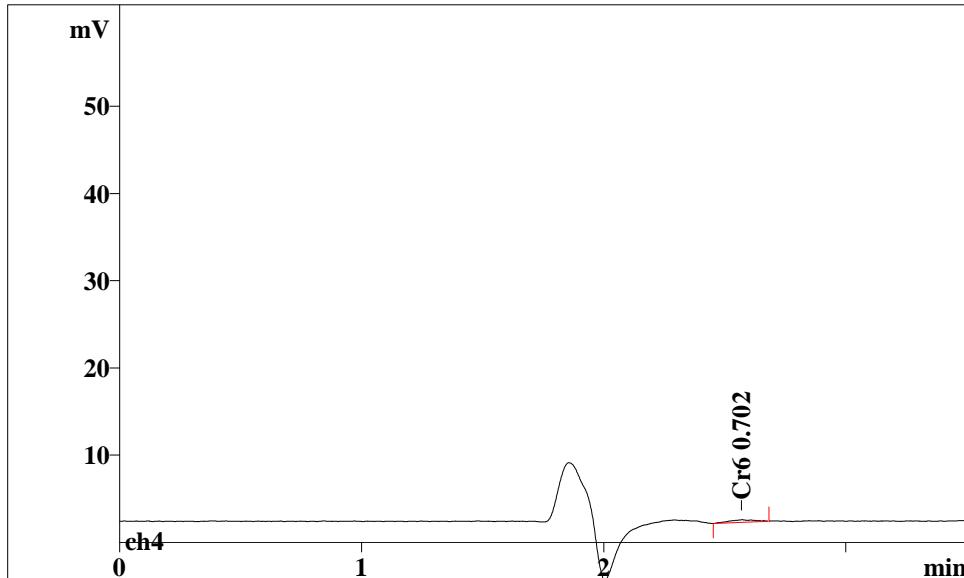
ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min  
Temperature: 30.0°C  
Pressure: 8.5 MPa



No peaks

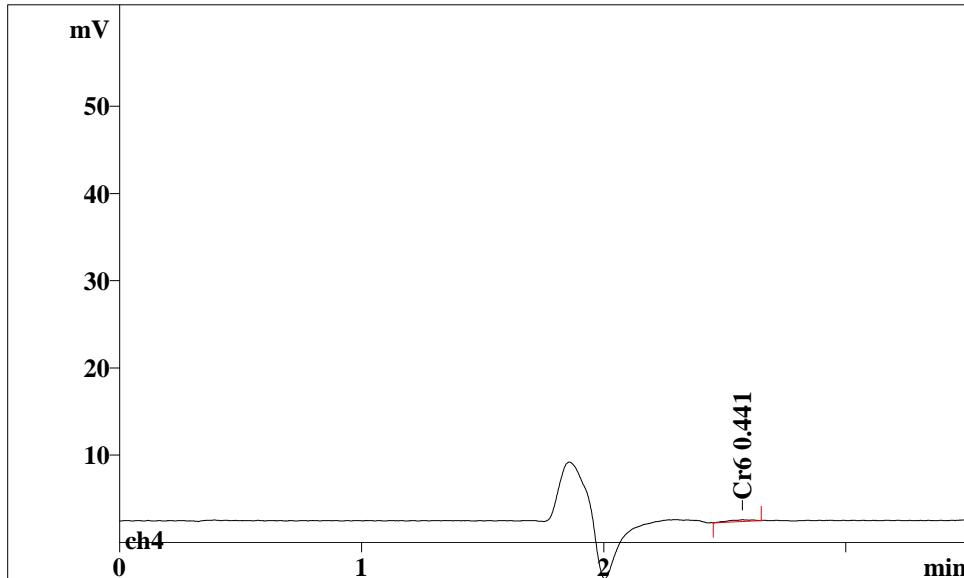
Report date: 12/18/2012 11:33:22 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-12-B@10  
 Analysis from: 12/18/2012 12:01:27 AM  
 File: wc180001.chw Last save: 12/17/2012 4:24:24 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40319  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 52  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.5 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.57; 0.117; 0.29; 98.98; 2.154; 100.00; 0.00; 0.00; 28
  
```

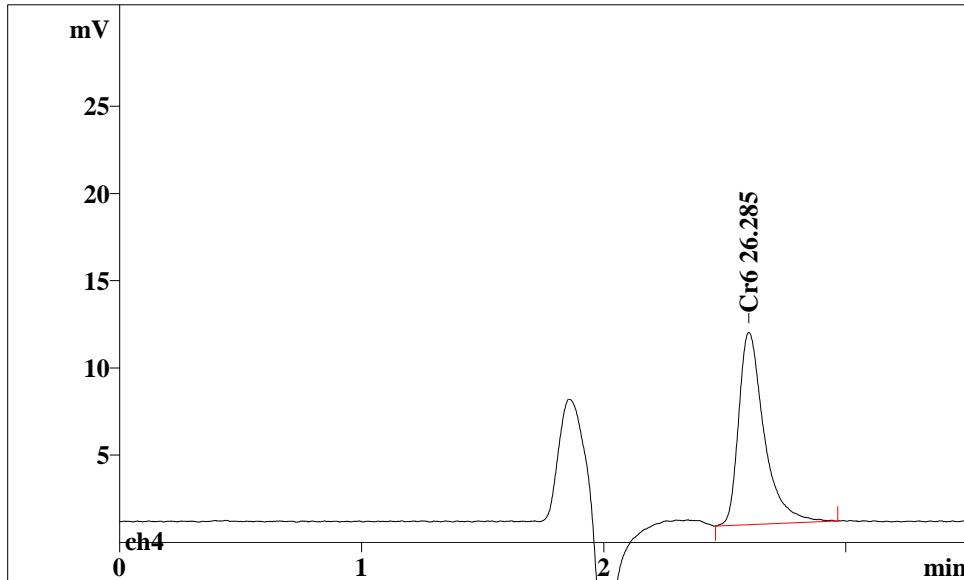
Report date: 12/18/2012 11:33:25 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-12-B@10  
 Analysis from: 12/18/2012 12:09:40 AM  
 File: wc180009.chw Last save: 12/17/2012 4:24:24 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40320  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 53  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



```

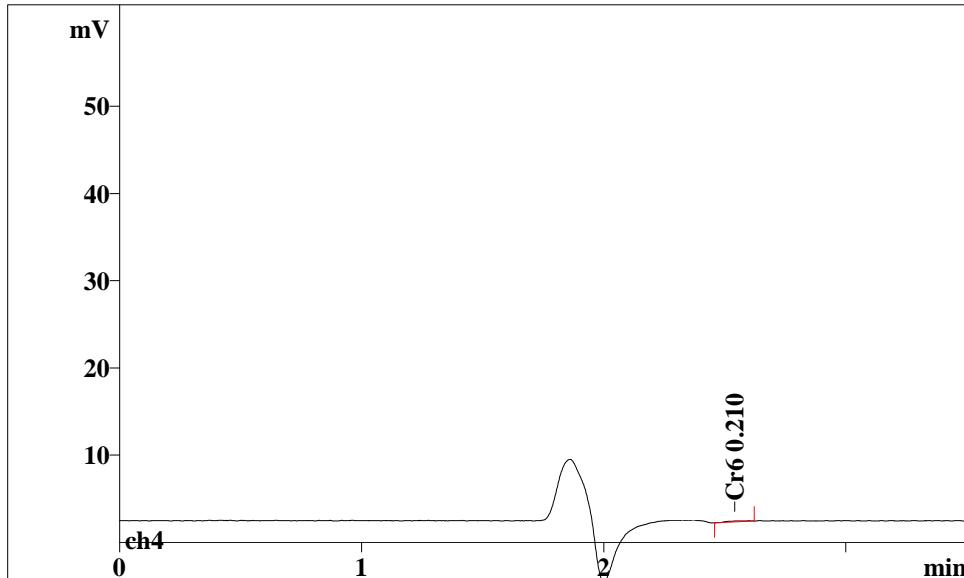
No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.57; 0.130; 0.20; 97.12; 1.354; 100.00; 0.00; 0.00; 32
  
```

Report date: 12/18/2012 11:33:29 AM  
 Printed by: TestAmerica - Edison  
 Ident: CCV  
 Analysis from: 12/18/2012 12:17:54 AM  
 File: wc180017.chw Last save: 12/17/2012 4:24:24 PM  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40321  
 SAMPLE: 100ul loop  
 :  
 Vial number: 54  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.5 MPa



No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;  
 ; min; min; mV; %; mV\*sec; %; ; n,n+1;  
 1; 2.60; 0.105; 11.02; 99.98; 80.650; 100.00; 0.00; 0.00; 28

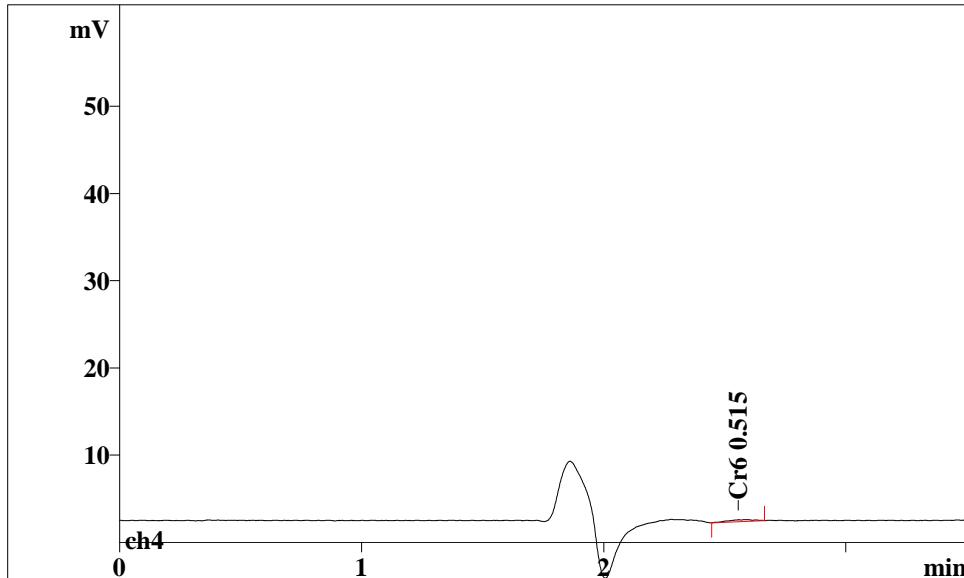
Report date: 12/18/2012 11:33:31 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: CCB  
 Analysis from: 12/18/2012 12:26:09 AM  
 File: wc180026.chw Last save: 12/17/2012 4:24:25 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40322  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 55  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.5 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.54; 0.093; 0.12; 96.87; 0.646; 100.00; 0.00; 0.00; 51
  
```

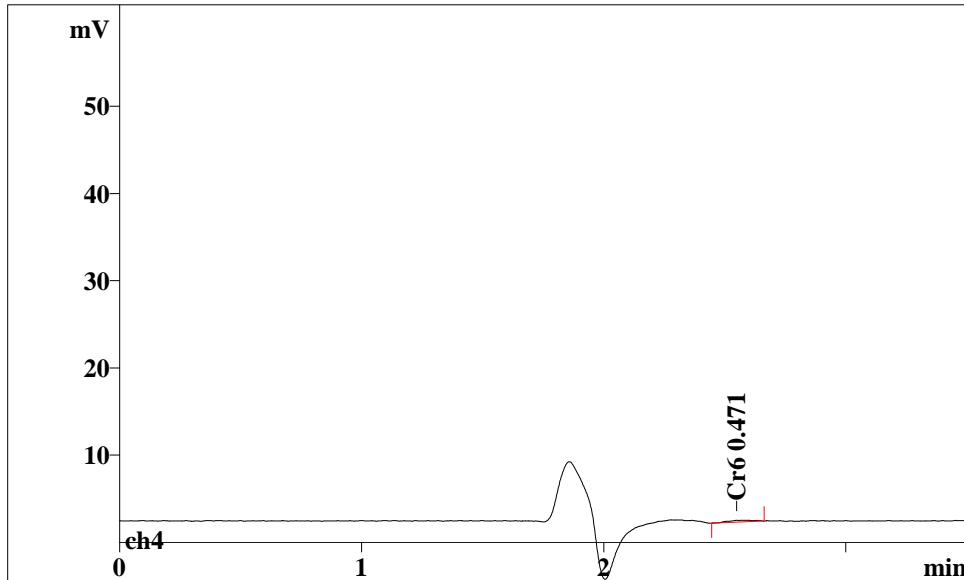
Report date: 12/18/2012 11:33:34 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-13-B@10  
 Analysis from: 12/18/2012 12:34:28 AM  
 File: wc180034.chw Last save: 12/17/2012 4:24:25 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40323  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 46  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.3 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.55; 0.122; 0.21; 97.54; 1.580; 100.00; 0.00; 0.00; 28
  
```

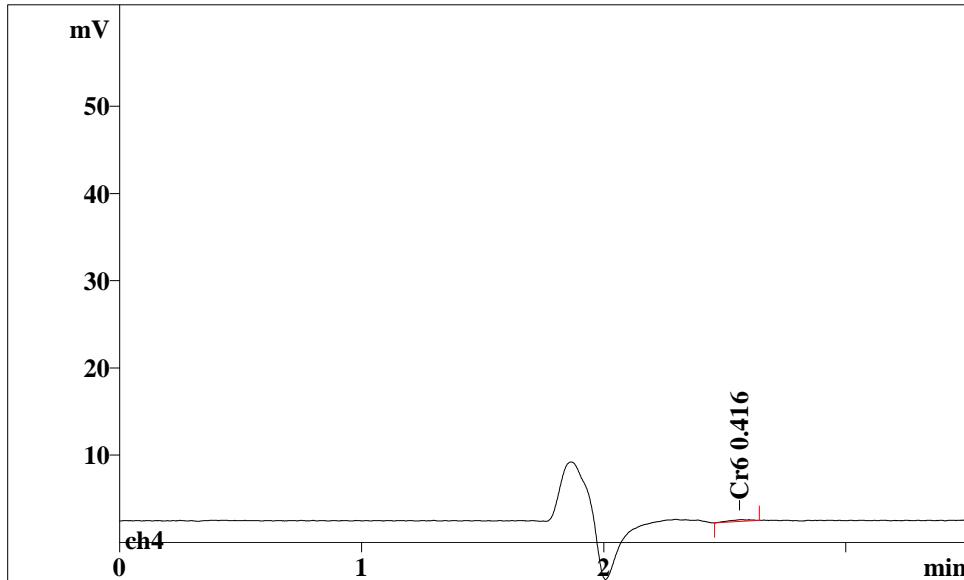
Report date: 12/18/2012 11:33:37 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-B-13-B@10  
 Analysis from: 12/18/2012 12:42:37 AM  
 File: wc180042.chw Last save: 12/17/2012 4:24:25 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40324  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 47  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.5 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.55; 0.122; 0.20; 100.27; 1.445; 100.00; 0.00; 0.00; 28
  
```

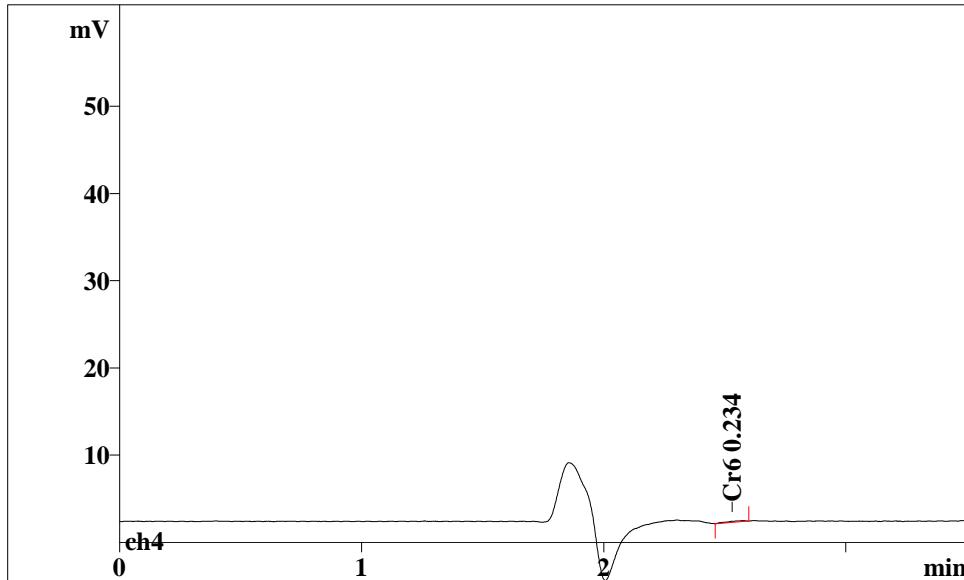
Report date: 12/18/2012 11:33:40 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-C-15-B@10  
 Analysis from: 12/18/2012 12:50:47 AM  
 File: wc180050.chw Last save: 12/17/2012 4:24:25 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40325  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 48  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.5 MPa



```

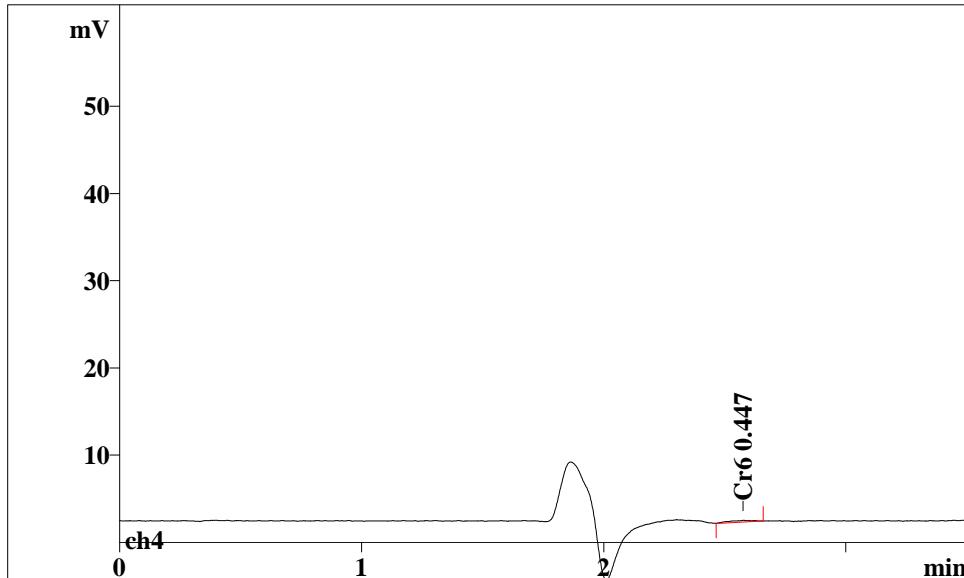
No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.56; 0.113; 0.20; 97.14; 1.277; 100.00; 0.00; 0.00; 38
  
```

Report date: 12/18/2012 11:33:42 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 480-29484-C-15-B@10  
 Analysis from: 12/18/2012 12:58:57 AM  
 File: wc180058.chw Last save: 12/17/2012 4:24:25 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40326  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 49  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.5 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K'; Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;
1;	2.53;	0.109;	0.13;	94.72;	0.718;	100.00;	n,n+1;
					0.00;	0.00;	0.00;
							55

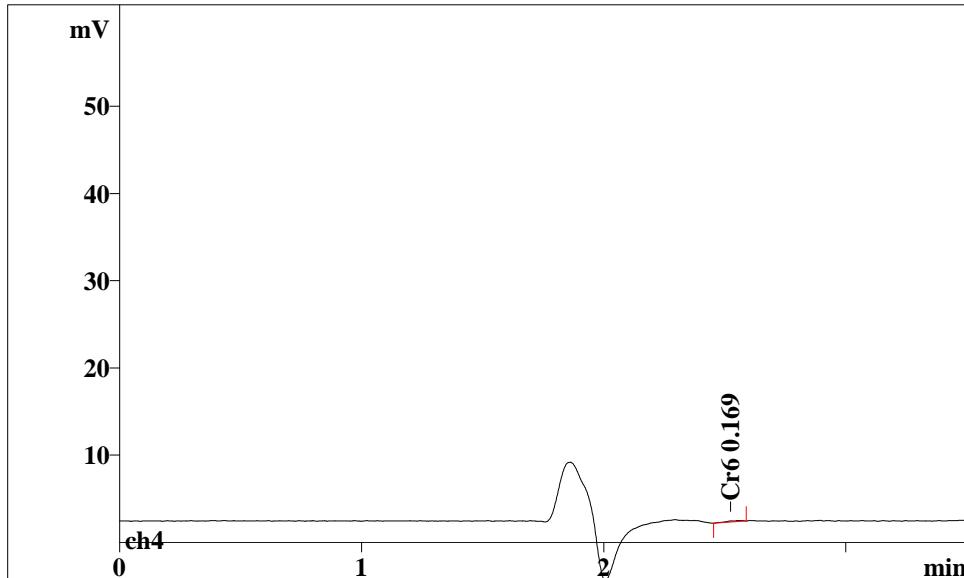
Report date: 12/18/2012 11:33:45 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 450-8054-C-1-G@10  
 Analysis from: 12/18/2012 1:07:08 AM  
 File: wc180107.chw Last save: 12/17/2012 4:24:25 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40327  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 50  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.5 MPa



```

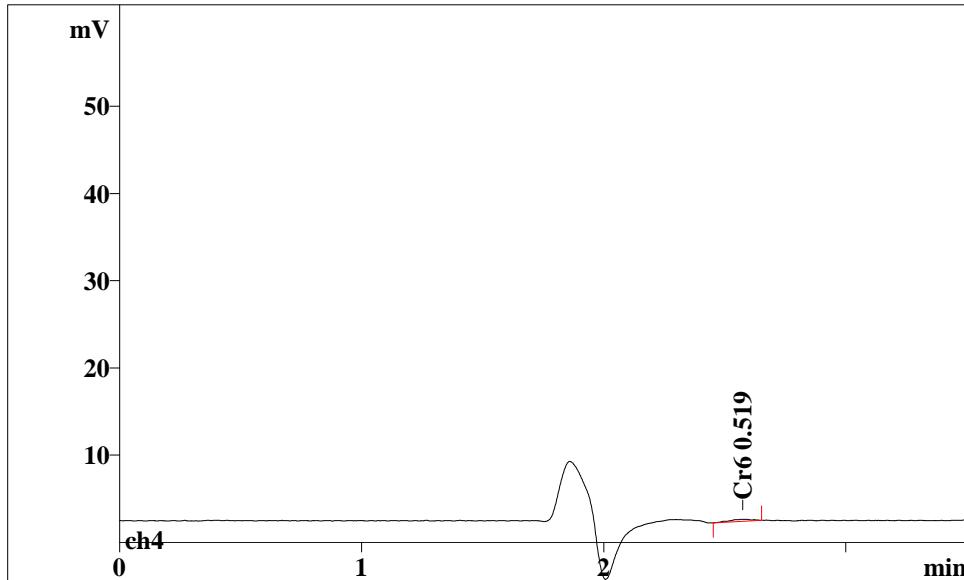
No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.57; 0.125; 0.19; 98.12; 1.373; 100.00; 0.00; 0.00; 30
  
```

Report date: 12/18/2012 11:33:48 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 450-8054-C-1-G@10  
 Analysis from: 12/18/2012 1:15:20 AM  
 File: wc180115.chw Last save: 12/17/2012 4:24:26 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40328  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 51  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.52;	0.069;	0.12;	99.52;	0.517;	100.00;	0.00;	0.00; 75

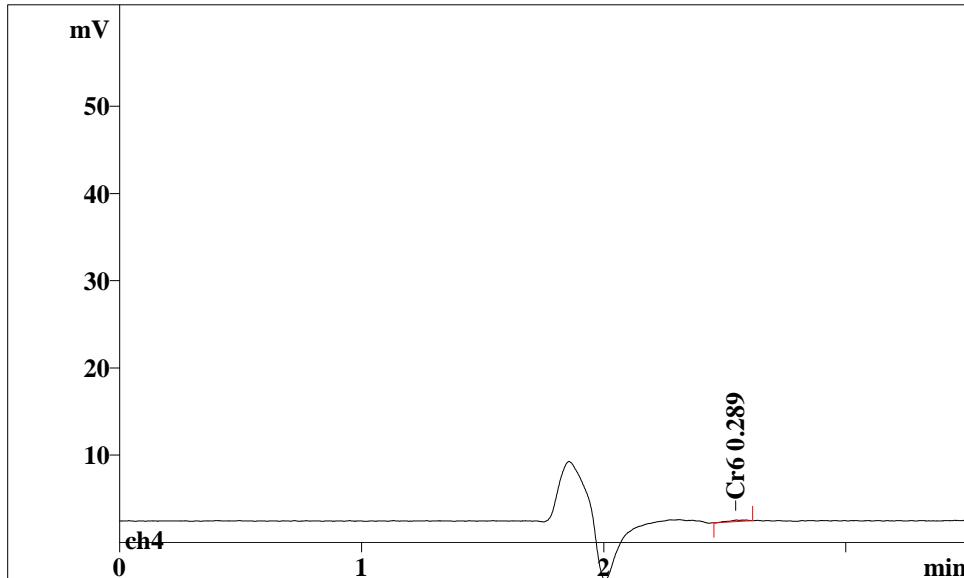
Report date: 12/18/2012 11:33:51 AM  
 Printed by: TestAmerica - Edison  
  
 Ident: 450-8103-B-21-G@10  
 Analysis from: 12/18/2012 1:23:33 AM  
 File: wc180123.chw Last save: 12/17/2012 4:24:26 PM  
  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40329  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 52  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.6 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.57; 0.111; 0.23; 96.18; 1.592; 100.00; 0.00; 0.00; 34
  
```

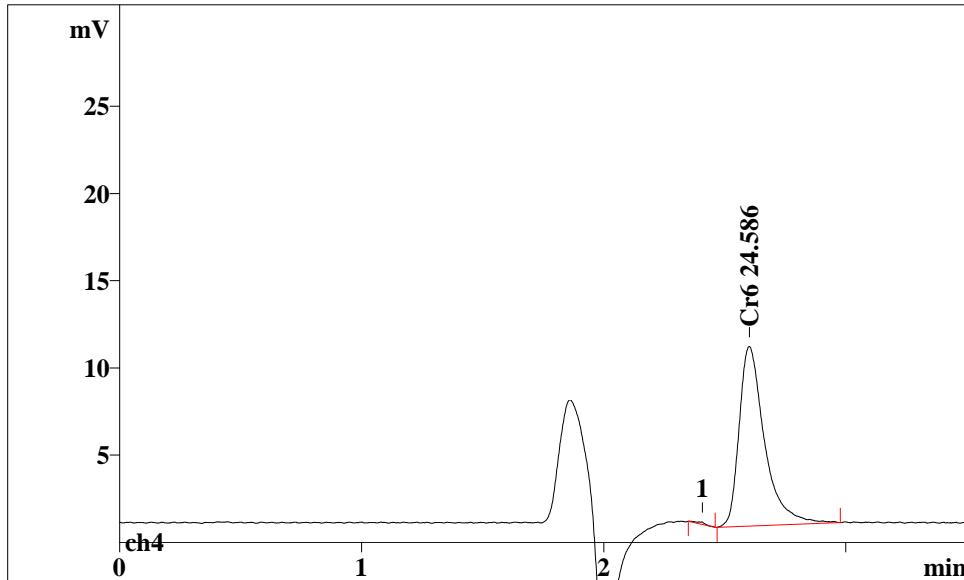
Report date: 12/18/2012 11:33:53 AM  
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 Ident: 450-8103-B-21-G@10  
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 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40330  
  
 SAMPLE: 100ul loop  
 :  
 Vial number: 53  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.5 MPa



```

No; Retention; Width/2; Height; Height; Area; Area; K'; Resolution;
; min; min; mV; %; mV*sec; %; ; n,n+1;
1; 2.55; 0.105; 0.17; 98.78; 0.886; 100.00; 0.00; 0.00; 58
  
```

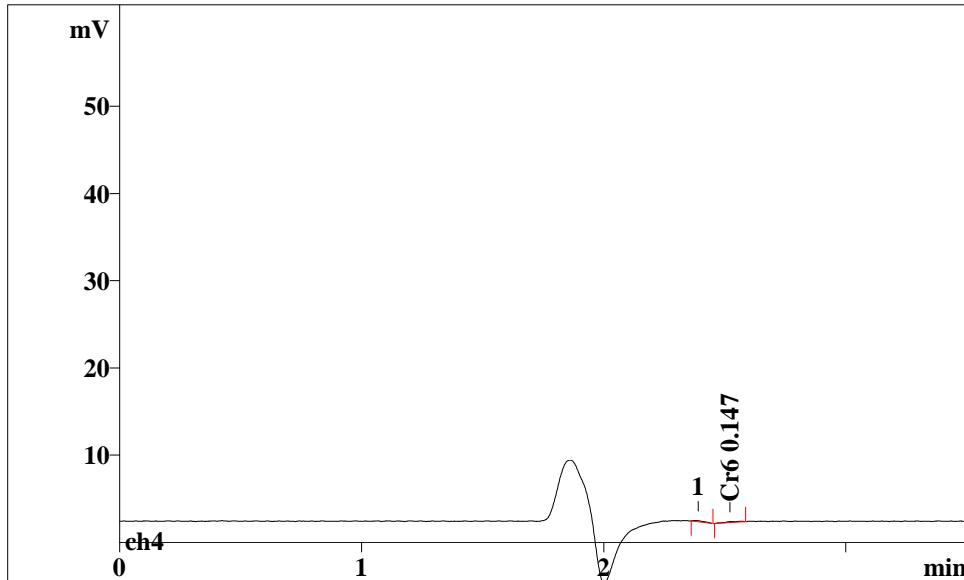
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 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40331  
 SAMPLE: 100ul loop  
 :  
 Vial number: 54  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.5 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K'; Resolution;
1;	min;	min;	mV;	%;	mV*sec;	%;	;
	2.60;	0.104;	10.31;	98.65;	75.438;	99.54;	n,n+1;
							0.00;
							0.00;

28

Report date: 12/18/2012 11:34:00 AM  
 Printed by: TestAmerica - Edison  
 Ident: CCB  
 Analysis from: 12/18/2012 1:48:15 AM  
 File: wc180148.chw Last save: 12/17/2012 4:24:26 PM  
 Method: stl\_hexchrome\_soil.mtw Last save: 12/17/2012 4:49:3  
 Run operator: TestAmerica - Edison  
 Analysis number: 40332  
 SAMPLE: 100ul loop  
 :  
 Vial number: 55  
 Volume: 1.0  $\mu$ L  
 Dilution: 1.00  
 Amount: 1.0000  
 COLUMN: A Supp 5-150  
 Size: 4.6 x 150 mm  
 Number:  
 Part.size: 7.0  $\mu$ m  
 ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI  
 Flow: 0.75 mL/min  
 Temperature: 30.0°C  
 Pressure: 8.5 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;
	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;
1;	2.52;	0.080;	0.11;	46.12;	0.450;	50.73;	0.00;	0.00; 92



THE LEADER IN ENVIRONMENTAL TESTING

Sample Dilution Log  
Wet ChemistryMethod No.: 7199Analyst: Sarah BrownPrep Batch: 140206Analysis Date: 12/17/12Analytical Batch: 140322

Job/Sample Number	Dilution Factor	Sample Volume (ml)	Final Volume (ml)	Diluent
MB	10	5	50	DI H <sub>2</sub> O
LCSS	25	2	50	
LCS1	500	(5→50) 1	50	
480-29484-14	10	5	50	
480-29484-14 DU	10	5	50	
480-29484-14 MSS	40	1.25	50	
480-29484-14 MSI	500	(5→50) 1	50	
480-29484-14 PDS	40	1.25	50	
480-29484-1	10	5	50	
480-29484-2	10	5	50	
480-29484-3	10	5	50	
480-29484-4	10	5	50	
480-29484-5	10	5	50	
480-29484-6	10	5	50	
480-29484-7	10	5	50	
480-29484-8	10	5	50	
480-29484-9	10	5	50	
480-29484-10	10	5	50	
480-29484-11	10	5	50	
480-29484-12	10	5	50	
480-29484-13	10	5	50	
480-29484-15	10	5	50	
450-8103-21	10	5	50	
450-8054-1	10	5	50	↓

**Data Review Coversheet—Inorganics Dept**

Method Name: PT

Method Reference: 9045C/480044 Date of Analytical Run: 12-5-12

Primary Reviewer's Initials & Date: GLO 12-10-12

Secondary Reviewer's Initials & Date: JHE 12-10-12

Batch Numbers	<u>97355</u>	<u>97358</u>		
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QC Criteria—Non-MCP: ICV/CCV ±10%; LCS/LCSD ±15%; MS/MSD ±25%; ICB/MB/CCB <RL; MD/MSD/LCSD RPD ≤20%

QC Criteria—MCP/RCP: 9012 (water): ICV/CCV ±15%; LCS/LCSD ±20%; MS/MSD ±25%; ICB/MB/CCB <RL; MD/MSD/LCSD RPD ≤20%  
 (9012 and 7196 only) 9012 (soil): ICV/CCV ±15%; LCS/LCSD \*\*; MS/MSD ±25%; ICB/MB/CCB <RL; MD RPD 35%; MSD/LCSD RPD ≤30%  
 7196 (water): ICV/CCV ±15%; LCS/LCSD ±20%; MS/MSD ±25%; ICB/MB/CCB <RL; MD/MSD/LCSD RPD ≤20%  
 7196 (soil): ICV/CCV ±15%; LCS/LCSD \*\*; MSS/MSI ±25%; ICB/MB/CCB <RL; MD RPD ≤35%; LCSD RPD ≤30%

**FAILURES OF QC FOR ANYTHING OTHER THAN MS, MSD or MD ARE GROUNDS FOR INVALIDATING THE BATCH.**

Criteria for QC	Yes	No	n/a	Notes/Comments
Were the ICV and/or CCVs within acceptable limits for QC recovery?	✓			
Were the ICB and/or CCBs all <RL?			✓	
Were all MB and/or CCB results <RL for the analytes of interest?			✓	
Was there a CCV/CCB combination run after every 10 samples or less?	✓			
Was there an LCS run with every batch of 20 samples or less?	✓			
Was there a MD, LCSD and/or MSD run with every batch of 20 samples or less?	✓			
Were all LCS/LCSD results within acceptable limits for QC recovery?	✓			
Were all MS/MSD results within acceptable limits for QC recovery?			✓	
Were all MD, LCSD and/or MSD %RPDs within acceptable limits for QC recovery?	✓			
Were the raw data points for investigative samples within the working curve range, or if not, were the samples diluted to bring them within this range?			✓	
IF there were any MCP/RCP samples in this batch, did they meet all MCP/RCP requirements?			✓	
Were there any holding time violations in this batch?		✓		NOTE! The PM and QA Manager must be notified by email <i>immediately</i> of any holding time violations!!
Were any NCMs generated for any samples in the batch? (If so, list NCM numbers, and first-reviewer must check off any "No" answers above as applicable.)			✓	
Were any jobs in this batch Level 4? If "Yes" then scan all raw data & place in correct scan folder on the public drive before filing this paperwork.	✓		X	JHE 12-21-12

\*\* LCS or LCSD must produce a recovery that is within the manufacturer's specified 95% confidence limits, must be matrix matched.

# Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97353

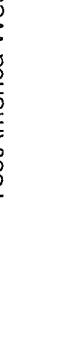
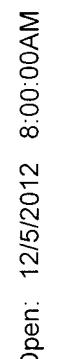
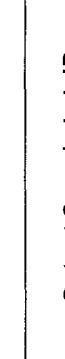
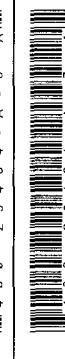
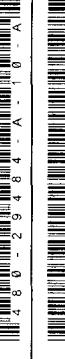
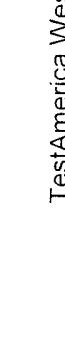
Method Code: 360-DI\_LEACH-360

Analyst: Benoit, Gary R

Batch Open: 12/5/2012 8:00:00AM

Batch End:

## Deionized Water Leaching Procedure

Input Sample Lab ID (Analytical Method)		SDG	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Dlv Rank	Comments	Output Sample Lab ID
1	LCS-360-97353/1 N/A	N/A		20 g	20 mL	N/A	N/A	N/A		 LCS-360-97353/1 - A
2	480-29484-A-1 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		 480-29484-A-1 - A
3	480-29484-A-2 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		 480-29484-A-2 - A
4	480-29484-A-2~DU (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		 480-29484-A-2~DU - A
5	480-29484-A-3 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		 480-29484-A-3 - A
6	480-29484-A-4 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		 480-29484-A-4 - A
7	480-29484-A-5 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		 480-29484-A-5 - A
8	480-29484-A-6 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		 480-29484-A-6 - A
9	480-29484-A-7 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		 480-29484-A-7 - A
10	480-29484-A-8 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		 480-29484-A-8 - A
11	480-29484-A-9 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		 480-29484-A-9 - A
12	480-29484-A-10 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		 480-29484-A-10 - A
13	480-29484-A-11 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		 480-29484-A-11 - A
14	480-29484-A-12 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		 480-29484-A-12 - A

# Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

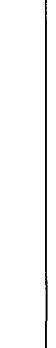
Batch Number: 360-97353

Method Code: 360-DI\_LEACH-360

Analyst: Benoit, Gary R

Batch Open: 12/5/2012 8:00:00AM

Batch End:

15	480-29484-A-13 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4	
16	480-29484-A-14 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4	
17	480-29484-A-15 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4	
18	N/A	N/A		20 g	20 mL	N/A	N/A	N/A	
19	N/A	N/A		20 g	20 mL	N/A	N/A	N/A	
20	N/A	N/A				N/A	N/A	N/A	

## **Metals/Inorganics Analysis Sheet**

(To Accompany Samples to Instruments)

Batch Number: 360-97353

Analyst: Benoit, Gary R

Method Code: 360-DI\_LEACH-360

Batch Open: 12/5/2012 8:00:00AM

Batch End:

<b>Batch Notes</b>		
Balance ID	_____	
Blank Soil Lot Number	_____	
Batch Comment	_____	

<b>Comments</b>		
Login Comments for Job	29484:	MCP ~L4Reviewed: N/A - ALL SUB ONLY.~

## Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97353

Method Code: 360-DI\_LEACH-360

Analyst: Benoit, Gary R

Batch Open: 12/5/2012 8:00:00AM

Batch End:

## Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
LCS 360-97353/1	W12H_PH_6_00001	20 mL	20 mL		

## Other Reagents:

**TestAmerica WESTFIELD**

SANITARY CHEMICAL ANALYSIS

Analyst:

CJCB

Date:

12-5-12

P. 1-#2

Instruments:

Accumet 20 (Installed July 1998; New)

Monitek 21 (Installed August 1996; New)

pH	SM 4500H+/EPA 9040/EPA 9045C
Color	SM 2120B
Odor	SM 2150B
Turbidity	EPA 180.1 Nephelometric
ORP	SM2580B

SAMPLE ID #	Time of Analysis	pH Analysis	ORP	Color		Odor	Turbidity	
				Dilution Factor (DF)	Observed Color (C) [=DF x C]		Dilution Factor (DF)	Observed Turb. (T) [=DF x T]
W124-PH6 2Hg.0 fcs ORP fcs	10/15	5.96	20.0°					
W125-02 fcs	09/19			4/23				
400-29484-C1	09/31	4.21	21.1°	119		W80 - 29484 had all samples labeled		
-C-2	09/15	4.21	20.4°	101		"C" switched to "A" by PM.		
-C-2-009	09/52	4.22	20.6°	101		PM		
-C-3	09/27	3.99	20.1°	98				
-C-4	10/02	3.58	20.2°	97				
-C-5	10/0	3.64	19.9°	68				
-C-6	10/19	3.90	20.1°	67				
-C-7	10/25	3.71	20.1°	62				
-C-8	10/31	6.19	20.3°	25				
-C-9	10/30	6.28	20.2°	20				
Cv P.03	10/13	7.02	20.0°					
400-29484-C10	10/16	3.82	20.1°	64				

pH Meter Calibration: Date & Time Calibrated: 12-5-12 0830 Analyst Initials: CJCB Meter Slope = 99.7

Buffer Lot Numbers (Fisher Sci.): pH 4.00 = 120441 pH 7.00 = 114197 pH 10.01 = 11417617

**TestAmerica WESTFIELD**

# SANITARY CHEMICAL ANALYSIS

Analyst:

Date: 12-5-12

Sept 26<sup>th</sup>

Instruments: • Accumet 20 (Installed July 1998; New) Monitek 21 (Installed August 1996; New)

pH	SM 4500H+/EPA 9040/EPA 9045C
Color	SM 2120B
Odor	SM 2150B
Turbidity	EPA 180.1 Nephelometric
ORP	SM2580B

**pH Meter Calibration:** Date & Time Calibrated: \_\_\_\_\_ Analyst Initials: \_\_\_\_\_ Meter Slope = \_\_\_\_\_  
Buffer Lot Numbers (Fisher Sci.): pH 4.00 = \_\_\_\_\_ pH 7.00 = \_\_\_\_\_ pH 10.01 = \_\_\_\_\_

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG No.:

Batch Number: 138391

Batch Start Date: 12/06/12 12:30

Batch Analyst: Brown, Sarah E

Batch Method: 3060A

Batch End Date: 12/06/12 13:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WThcrIM 00040	WThcrPbCr 00004	WThcrsLCS 00067	
MB 460-138391/1		3060A, 7199		2.50 g	100 mL				
LCSS 460-138391/2		3060A, 7199		2.50 g	100 mL			5 mL	
LCSI 460-138391/3		3060A, 7199		2.50 g	100 mL		0.011 g		
480-29484-B-14 0-XXX	OC-SS-521-0.0/1.	3060A, 7199	T	2.50 g	100 mL				
480-29484-B-14 DU	OC-SS-521-0.0/1. 0-XXX	3060A, 7199	T	2.50 g	100 mL				
480-29484-B-14 MSS	OC-SS-521-0.0/1. 0-XXX	3060A, 7199	T	2.50 g	100 mL	1 mL			
480-29484-B-14 MSI	OC-SS-521-0.0/1. 0-XXX	3060A, 7199	T	2.50 g	100 mL		0.011 g		
480-29484-B-1 OC-SS-510-0.0/1. 0-XXX	3060A, 7199	T		2.56 g	100 mL				
480-29484-B-2 OC-SS-512-0.0/1. 0-XXX	3060A, 7199	T		2.49 g	100 mL				
480-29484-B-3 OC-SS-520-0.0/1. 0-XXX	3060A, 7199	T		2.57 g	100 mL				
480-29484-C-4 OC-SS-519-0.0/1. 0-XXX	3060A, 7199	T		2.56 g	100 mL				
480-29484-C-5 OC-SS-518-0.0/1. 0-XXX	3060A, 7199	T		2.55 g	100 mL				
480-29484-B-6 OC-SS-522-0.0/1. 0-XXX	3060A, 7199	T		2.42 g	100 mL				
480-29484-C-7 OC-SS-523-0.0/1. 0-XXX	3060A, 7199	T		2.45 g	100 mL				
480-29484-B-8 OC-SS-511-0.0/1. 0-XXX	3060A, 7199	T		2.44 g	100 mL				
480-29484-B-9 OC-SS-513-0.0/1. 0-XXX	3060A, 7199	T		2.49 g	100 mL				
480-29484-B-10 OC-SS-517-0.0/1. 0-XXX	3060A, 7199	T		2.59 g	100 mL				
480-29484-B-11 OC-SS-514-0.0/1. 0-XXX	3060A, 7199	T		2.48 g	100 mL				
480-29484-B-12 OC-SS-515-0.0/1. 0-XXX	3060A, 7199	T		2.45 g	100 mL				
480-29484-B-13 OC-SS-516-0.0/1. 0-XXX	3060A, 7199	T		2.52 g	100 mL				
480-29484-C-15 OC-DUP-1	3060A, 7199	T		2.58 g	100 mL				

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Batch Number: 138391

Batch Start Date: 12/06/12 12:30

Batch Analyst: Brown, Sarah E

Batch Method: 3060A

Batch End Date: 12/06/12 13:30

Batch Notes	
Alkaline Digestion Solution Reagent ID	C9021-12 exp. 01/03/13
Batch Comment	Temperature after 30 min.= 93C (Uncorrected); 94C (Corrected)
First End time	13:30
Potassium Phosphate Buffer Reagent ID	C8558-12 exp. 02/20/13
Lead Chromate Lot #	BCBC2419 exp. 09/16/15
Lead Chromate Vendor ID	Aldrich
Magnesium Chloride Lot Number	2482C441 exp. 07/02/17
Magnesium Chloride Vendor	Amresco
First Start time	12:30
Ending Temperature	93C (Uncorrected); 94C (Corrected) Celsius
Starting Temperature	89C (Uncorrected); 90C (Corrected) Celsius

Basis	Basis Description
T	Total/NA

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG No.:

Batch Number: 139567

Batch Start Date: 12/12/12 12:17

Batch Analyst: Brown, Sarah E

Batch Method: 7199

Batch End Date: 12/12/12 21:31

Lab Sample ID	Client Sample ID	Method Chain	Basis	Final Amount	Initial pH	WThcrIM5 00446	WThcrIM6 00433	Analysis Comment	
ICV 460-139567/6		7199		100 mL	9.45		2.5 mL	All samples run in duplicate, as per method; higher result reported as primary, lower result rejected	
ICB 460-139567/7		7199			9.38			Initial pH=pH (in SU between 9.00-9.50) after adjustment with 1:1 HNO3 (C9024-12 exp. 06/03/13)	
MB 460-138391/1-A ^10		7199			9.31				
LCSS 460-138391/2-A ^25		7199			9.27				
LCSI 460-138391/3-A ^500		7199			9.20			Color:	
480-29484-B-14-A ^10	OC-SS-521-0.0/1. 0-XXX	7199	T		9.36			dark brown	
480-29484-B-14-B DU ^10	OC-SS-521-0.0/1. 0-XXX	7199	T		9.42			dark brown	
CCV 460-139567/18		7199		100 mL	9.45		2.5 mL		
CCB 460-139567/19		7199			9.38				
480-29484-B-14-C MSS ^40	OC-SS-521-0.0/1. 0-XXX	7199	T		9.45			dark brown	
480-29484-B-14-D MSI ^500	OC-SS-521-0.0/1. 0-XXX	7199	T		9.41			dark brown	
480-29484-B-14-A PDS ^40	OC-SS-521-0.0/1. 0-XXX	7199	T	50 mL	9.38	1.25 mL		dark brown	
480-29484-B-1-A ^10	OC-SS-510-0.0/1. 0-XXX	7199	T		9.04			dark brown	
480-29484-B-2-A ^10	OC-SS-512-0.0/1. 0-XXX	7199	T		9.18			brown	
CCV 460-139567/30		7199		100 mL	9.45		2.5 mL		
CCB 460-139567/31		7199			9.38				

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG No.:

Batch Number: 139567

Batch Start Date: 12/12/12 12:17

Batch Analyst: Brown, Sarah E

Batch Method: 7199

Batch End Date: 12/12/12 21:31

Lab Sample ID	Client Sample ID	Method Chain	Basis	Final Amount	Initial pH	WThcrIM5 00446	WThcrIM6 00433	Analysis Comment	
480-29484-B-3-A ^10	OC-SS-520-0.0/1. 0-XXX	7199	T		9.45			brown	
480-29484-C-4-A ^10	OC-SS-519-0.0/1. 0-XXX	7199	T		9.16			dark brown	
480-29484-C-5-A ^10	OC-SS-518-0.0/1. 0-XXX	7199	T		9.12			brown	
480-29484-B-6-A ^10	OC-SS-522-0.0/1. 0-XXX	7199	T		9.41			brown	
480-29484-C-7-A ^10	OC-SS-523-0.0/1. 0-XXX	7199	T		9.07			dark brown	
CCV 460-139567/42		7199		100 mL	9.45		2.5 mL		
CCB 460-139567/43		7199			9.38				
480-29484-B-8-A ^10	OC-SS-511-0.0/1. 0-XXX	7199	T		9.22			brown	
480-29484-B-9-A ^10	OC-SS-513-0.0/1. 0-XXX	7199	T		9.23			light brown	
480-29484-B-10- A ^10	OC-SS-517-0.0/1. 0-XXX	7199	T		9.16			brown	
480-29484-B-11- A ^10	OC-SS-514-0.0/1. 0-XXX	7199	T		9.22			brown	
480-29484-B-12- A ^10	OC-SS-515-0.0/1. 0-XXX	7199	T		9.31			brown	
CCV 460-139567/54		7199		100 mL	9.45		2.5 mL		
CCB 460-139567/55		7199			9.38				
480-29484-B-13- A ^10	OC-SS-516-0.0/1. 0-XXX	7199	T		9.29			light brown	
480-29484-C-15- A ^10	OC-DUP-1	7199	T		9.44			brown	
CCV 460-139567/66		7199		100 mL	9.45		2.5 mL		
CCB 460-139567/67		7199			9.38				

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Batch Number: 139567

Batch Start Date: 12/12/12 12:17

Batch Analyst: Brown, Sarah E

Batch Method: 7199

Batch End Date: 12/12/12 21:31

Batch Notes	
Batch Comment	Cal. curve: IC(2074-2077)12; CCV: IC(2078)12 exp. 12/13/12
Buffer Lot #	C8587-12 exp. 02/24/13
Eluent 1 Lot	1300-12 exp. 12/17/12
Filter Lot #	Nalgene #130-4045
pH Meter ID	B
Post Column Reagent Lot	1301-12 exp. 12/15/12

Basis	Basis Description
T	Total/NA

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG No.:

Batch Number: 140206

Batch Start Date: 12/14/12 14:38

Batch Analyst: Brown, Sarah E

Batch Method: 3060A

Batch End Date: 12/14/12 15:38

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WThcrIM 00040	WThcrPbCr 00004	WThcrsLCS 00067	
MB 460-140206/1		3060A, 7199		2.50 g	100 mL				
LCSS 460-140206/2		3060A, 7199		2.50 g	100 mL			5 mL	
LCSI 460-140206/3		3060A, 7199		2.50 g	100 mL		0.011 g		
480-29484-B-14 0-XXX	OC-SS-521-0.0/1.	3060A, 7199	T	2.50 g	100 mL				
480-29484-B-14 DU	OC-SS-521-0.0/1. 0-XXX	3060A, 7199	T	2.50 g	100 mL				
480-29484-B-14 MSS	OC-SS-521-0.0/1. 0-XXX	3060A, 7199	T	2.50 g	100 mL	1 mL			
480-29484-B-14 MSI	OC-SS-521-0.0/1. 0-XXX	3060A, 7199	T	2.50 g	100 mL		0.011 g		
480-29484-B-1 OC-SS-510-0.0/1. 0-XXX	3060A, 7199	T		2.43 g	100 mL				
480-29484-B-2 OC-SS-512-0.0/1. 0-XXX	3060A, 7199	T		2.45 g	100 mL				
480-29484-B-3 OC-SS-520-0.0/1. 0-XXX	3060A, 7199	T		2.56 g	100 mL				
480-29484-C-4 OC-SS-519-0.0/1. 0-XXX	3060A, 7199	T		2.53 g	100 mL				
480-29484-C-5 OC-SS-518-0.0/1. 0-XXX	3060A, 7199	T		2.55 g	100 mL				
480-29484-B-6 OC-SS-522-0.0/1. 0-XXX	3060A, 7199	T		2.49 g	100 mL				
480-29484-C-7 OC-SS-523-0.0/1. 0-XXX	3060A, 7199	T		2.46 g	100 mL				
480-29484-B-8 OC-SS-511-0.0/1. 0-XXX	3060A, 7199	T		2.46 g	100 mL				
480-29484-B-9 OC-SS-513-0.0/1. 0-XXX	3060A, 7199	T		2.50 g	100 mL				
480-29484-B-10 OC-SS-517-0.0/1. 0-XXX	3060A, 7199	T		2.53 g	100 mL				
480-29484-B-11 OC-SS-514-0.0/1. 0-XXX	3060A, 7199	T		2.46 g	100 mL				
480-29484-B-12 OC-SS-515-0.0/1. 0-XXX	3060A, 7199	T		2.43 g	100 mL				
480-29484-B-13 OC-SS-516-0.0/1. 0-XXX	3060A, 7199	T		2.52 g	100 mL				
480-29484-C-15 OC-DUP-1	3060A, 7199	T		2.59 g	100 mL				

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Batch Number: 140206

Batch Start Date: 12/14/12 14:38

Batch Analyst: Brown, Sarah E

Batch Method: 3060A

Batch End Date: 12/14/12 15:38

Batch Notes	
Alkaline Digestion Solution Reagent ID	C9022-12 exp. 01/03/13
Batch Comment	Temperature after 30 min.= 93C (Uncorrected); 94C (Corrected)
First End time	15:38
Potassium Phosphate Buffer Reagent ID	C8558-12 exp. 02/20/13
Lead Chromate Lot #	BCBC2419 exp. 09/16/15
Lead Chromate Vendor ID	Aldrich
Magnesium Chloride Lot Number	2482C441 exp. 07/02/17
Magnesium Chloride Vendor	Amresco
First Start time	14:38
Ending Temperature	93C (Uncorrected); 94C (Corrected) Celsius
Starting Temperature	89C (Uncorrected); 90C (Corrected) Celsius

Basis	Basis Description
T	Total/NA

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG No.:

Batch Number: 140322

Batch Start Date: 12/17/12 15:19

Batch Analyst: Brown, Sarah E

Batch Method: 7199

Batch End Date: 12/18/12 01:48

Lab Sample ID	Client Sample ID	Method Chain	Basis	Final Amount	Initial pH	WThcrIM5 00447	WThcrIM6 00434	Analysis Comment	
ICV 460-140322/6		7199		100 mL	9.14		2.5 mL	All samples run in duplicate, as per method; higher result reported as primary, lower result rejected	
ICB 460-140322/7		7199			9.08			Initial pH=pH (in SU between 9.00-9.50) after adjustment with 1:1 HNO3 (C9024-12 exp. 06/03/13)	
MB 460-140206/1-A ^10		7199			9.12				
LCSS 460-140206/2-A ^25		7199			9.15				
LCSI 460-140206/3-A ^500		7199			9.30			Color:	
480-29484-B-14-E ^10	OC-SS-521-0.0/1. 0-XXX	7199	T		9.12			dark brown	
480-29484-B-14-F DU ^10	OC-SS-521-0.0/1. 0-XXX	7199	T		9.49			dark brown	
CCV 460-140322/18		7199		100 mL	9.14		2.5 mL		
CCB 460-140322/19		7199			9.08				
480-29484-B-14-G MSS ^40	OC-SS-521-0.0/1. 0-XXX	7199	T		9.48			dark brown	
480-29484-B-14-H MSI ^500	OC-SS-521-0.0/1. 0-XXX	7199	T		9.19			dark brown	
480-29484-B-14-E PDS ^40	OC-SS-521-0.0/1. 0-XXX	7199	T	50 mL	9.15	1.25 mL			
480-29484-B-1-B ^10	OC-SS-510-0.0/1. 0-XXX	7199	T		9.38			dark brown	
480-29484-B-2-B ^10	OC-SS-512-0.0/1. 0-XXX	7199	T		9.11			brown	
CCV 460-140322/30		7199		100 mL	9.14		2.5 mL		
CCB 460-140322/31		7199			9.08				

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG No.:

Batch Number: 140322

Batch Start Date: 12/17/12 15:19

Batch Analyst: Brown, Sarah E

Batch Method: 7199

Batch End Date: 12/18/12 01:48

Lab Sample ID	Client Sample ID	Method Chain	Basis	Final Amount	Initial pH	WThcrIM5 00447	WThcrIM6 00434	Analysis Comment	
480-29484-B-3-B ^10	OC-SS-520-0.0/1. 0-XXX	7199	T		9.25			brown	
480-29484-C-4-B ^10	OC-SS-519-0.0/1. 0-XXX	7199	T		9.07			dark brown	
480-29484-C-5-B ^10	OC-SS-518-0.0/1. 0-XXX	7199	T		9.09			brown	
480-29484-B-6-B ^10	OC-SS-522-0.0/1. 0-XXX	7199	T		9.17			brown	
480-29484-C-7-B ^10	OC-SS-523-0.0/1. 0-XXX	7199	T		9.41			dark brown	
CCV 460-140322/42		7199		100 mL	9.14		2.5 mL		
CCB 460-140322/43		7199			9.08				
480-29484-B-8-B ^10	OC-SS-511-0.0/1. 0-XXX	7199	T		9.46			brown	
480-29484-B-9-B ^10	OC-SS-513-0.0/1. 0-XXX	7199	T		9.30			light brown	
480-29484-B-10- B ^10	OC-SS-517-0.0/1. 0-XXX	7199	T		9.15			brown	
480-29484-B-11- B ^10	OC-SS-514-0.0/1. 0-XXX	7199	T		9.17			brown	
480-29484-B-12- B ^10	OC-SS-515-0.0/1. 0-XXX	7199	T		9.24			brown	
CCV 460-140322/54		7199		100 mL	9.14		2.5 mL		
CCB 460-140322/55		7199			9.08				
480-29484-B-13- B ^10	OC-SS-516-0.0/1. 0-XXX	7199	T		9.27			light brown	
480-29484-C-15- B ^10	OC-DUP-1	7199	T		9.40			brown	
CCV 460-140322/64		7199		100 mL	9.14		2.5 mL		
CCB 460-140322/65		7199			9.08				

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Batch Number: 140322

Batch Start Date: 12/17/12 15:19

Batch Analyst: Brown, Sarah E

Batch Method: 7199

Batch End Date: 12/18/12 01:48

Batch Notes	
Batch Comment	Cal. curve: IC(2080-2083)12; CCV: IC(2084)12 exp. 12/18/12
Buffer Lot #	C8587-12 exp. 02/24/13
Eluent 1 Lot	1306-12 exp. 12/24/12
Filter Lot #	Nalgene lot#130-4045
pH Meter ID	B
Post Column Reagent Lot	1305-12 exp. 12/19/12

Basis	Basis Description
T	Total/NA

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG No.:

Batch Number: 138869 Batch Start Date: 12/09/12 11:55 Batch Analyst: Robinson, Ian

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-29484-C-1	OC-SS-510-0.0/1. 0-XXX	Moisture	T	23	1.00 g	6.64 g	5.26 g		
480-29484-B-2	OC-SS-512-0.0/1. 0-XXX	Moisture	T	24	0.99 g	6.41 g	4.76 g		
480-29484-C-3	OC-SS-520-0.0/1. 0-XXX	Moisture	T	25	0.98 g	6.33 g	3.19 g		
480-29484-B-4	OC-SS-519-0.0/1. 0-XXX	Moisture	T	26	0.96 g	6.57 g	3.67 g		
480-29484-C-5	OC-SS-518-0.0/1. 0-XXX	Moisture	T	27	0.95 g	6.76 g	3.84 g		
480-29484-B-6	OC-SS-522-0.0/1. 0-XXX	Moisture	T	28	1.03 g	6.25 g	4.37 g		
480-29484-B-7	OC-SS-523-0.0/1. 0-XXX	Moisture	T	29	1.01 g	6.14 g	3.97 g		
480-29484-B-8	OC-SS-511-0.0/1. 0-XXX	Moisture	T	30	1.05 g	6.73 g	4.14 g		
480-29484-C-9	OC-SS-513-0.0/1. 0-XXX	Moisture	T	31	1.01 g	6.79 g	4.35 g		
480-29484-B-10	OC-SS-517-0.0/1. 0-XXX	Moisture	T	32	1.02 g	6.46 g	5.47 g		
480-29484-B-11	OC-SS-514-0.0/1. 0-XXX	Moisture	T	33	1.02 g	6.32 g	5.86 g		
480-29484-B-12	OC-SS-515-0.0/1. 0-XXX	Moisture	T	34	1.03 g	6.28 g	5.31 g		
480-29484-B-13	OC-SS-516-0.0/1. 0-XXX	Moisture	T	35	1.01 g	6.41 g	5.48 g		
480-29484-B-14	OC-SS-521-0.0/1. 0-XXX	Moisture	T	36	1.00 g	6.22 g	3.14 g		
480-29484-B-14 MS	OC-SS-521-0.0/1. 0-XXX	Moisture	T	37	1.00 g	6.22 g	3.14 g		
480-29484-B-14 MSD	OC-SS-521-0.0/1. 0-XXX	Moisture	T	38	1.00 g	6.22 g	3.14 g		
480-29484-B-15	OC-DUP-1	Moisture	T	39	1.02 g	6.28 g	4.06 g		

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Batch Number: 138869

Batch Start Date: 12/09/12 11:55

Batch Analyst: Robinson, Ian

Batch Method: Moisture

Batch End Date: \_\_\_\_\_

Batch Notes	
Balance ID	104 No Unit
Date samples were placed in the oven	12/09/12
Oven Temp when samples are put in oven	105 Degrees C
Time samples were place in the oven	12:15
Date samples were removed from oven	12/10/12
Oven Temp when samples removed from oven	104 Degrees C
Time Samples were removed from oven	11:00
Oven ID	Oven 1
ID number of the thermometer	N71565
Uncorrected In Temperature	105 Celsius
Uncorrected Out Temperature	104 Celsius

Basis	Basis Description
T	Total/NA

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG No.:

Batch Number: 97353

Batch Start Date: 12/05/12 08:00

Batch Analyst: Benoit, Gary R

Batch Method: DI Leach

Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	W12H_PH_6 00001			
LCS 360-97353/1		DI Leach, 9045C		20 g	20 mL	20 mL			
480-29484-A-1	OC-SS-510-0.0/1. 0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29484-A-2	OC-SS-512-0.0/1. 0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29484-A-2 DU	OC-SS-512-0.0/1. 0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29484-A-3	OC-SS-520-0.0/1. 0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29484-A-4	OC-SS-519-0.0/1. 0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29484-A-5	OC-SS-518-0.0/1. 0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29484-A-6	OC-SS-522-0.0/1. 0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29484-A-7	OC-SS-523-0.0/1. 0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29484-A-8	OC-SS-511-0.0/1. 0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29484-A-9	OC-SS-513-0.0/1. 0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29484-A-10	OC-SS-517-0.0/1. 0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29484-A-11	OC-SS-514-0.0/1. 0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29484-A-12	OC-SS-515-0.0/1. 0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29484-A-13	OC-SS-516-0.0/1. 0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29484-A-14	OC-SS-521-0.0/1. 0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29484-A-15	OC-DUP-1	DI Leach, 9045C	S	20 g	20 mL				

## Batch Notes


Basis	Basis Description
S	Soluble

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG No.: \_\_\_\_\_

Batch Number: 97355 Batch Start Date: 12/05/12 09:15 Batch Analyst: Emerich, Rich W

Batch Method: 9045C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	W12H_PH_7 00001					
CCV 360-97355/12		9045C		20 mL					
CCV 360-97355/19		9045C		20 mL					

Batch Notes	
pH Buffer 1 ID	PH4 FISHER-120144
pH Buffer 2 ID	PH7 FISHER-114197
pH Buffer 3 ID	PH10 FISHER-114767

Basis	Basis Description

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Westfield

Job No.: 480-29484-1

SDG No.:

Batch Number: 97354

Batch Start Date: 12/05/12 08:00

Batch Analyst: Benoit, Gary R

Batch Method: DI Leach

Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	W12F ORP LCS 00001			
LCS 360-97354/1		DI Leach, SM 2580B		20 g	20 mL	20 mL			
480-29484-A-1	OC-SS-510-0.0/1. 0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29484-A-2	OC-SS-512-0.0/1. 0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29484-A-2 DU	OC-SS-512-0.0/1. 0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29484-A-3	OC-SS-520-0.0/1. 0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29484-A-4	OC-SS-519-0.0/1. 0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29484-A-5	OC-SS-518-0.0/1. 0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29484-A-6	OC-SS-522-0.0/1. 0-XXX	DT Leach, SM 2580B	S	20 g	20 mL				
480-29484-A-7	OC-SS-523-0.0/1. 0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29484-A-8	OC-SS-511-0.0/1. 0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29484-A-9	OC-SS-513-0.0/1. 0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29484-A-10	OC-SS-517-0.0/1. 0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29484-A-11	OC-SS-514-0.0/1. 0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29484-A-12	OC-SS-515-0.0/1. 0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29484-A-13	OC-SS-516-0.0/1. 0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29484-A-14	OC-SS-521-0.0/1. 0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29484-A-15	OC-DUP-1	DI Leach, SM 2580B	S	20 g	20 mL				

Batch Notes


Basis	Basis Description
S	Soluble

# **Shipping and Receiving Documents**

## Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 480-29484-1

**Login Number: 29484**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Kolb, Chris M**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	False	Received same day of collection
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

## Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 480-29484-1

**Login Number: 29484**

**List Source: TestAmerica Edison**

**List Number: 1**

**List Creation: 12/05/12 05:50 PM**

**Creator: Villadarez, Gerson Timothy S**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4°C IR#4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 480-29484-1

**Login Number: 29484**

**List Source: TestAmerica Westfield**

**List Number: 1**

**List Creation: 12/10/12 10:27 AM**

**Creator: Emerich, Rich W**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria; not on ice.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



**TestAmerica Westfield**  
 Westfield Executive Park 53 Southampton Road  
 Westfield, MA 01085  
 Phone (413) 572-4000 Fax (413) 572-3707

**Boston Service Center**  
 240 Bear Hill Rd. Suite 104  
 Waltham, MA 02451  
 Phone (781) 466-6900 Fax (781) 466-6901

**Chain of Custody Record**

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information				Analysis Requested		Carrier Tracking No(s):		Job #:		Page:	
Company: <b>AMEC E&amp;I</b>	Client Contact: <b>David Chapman</b>	Sampler: <b>David Chapman</b>	Phone: <b>339-927-3793</b>	Lab PM:	E-Mail:			<b>25423</b>	<b>2 of 2</b>	<b>460-24484</b>	<b>25423</b>
Address: <b>2 Robbins Rd.</b>	City: <b>Westford</b>	Due Date Requested: <b>5/9/16</b>	TAT Requested (days): <b>5</b>	Standard							
State/Zip: <b>MA 01886</b>	Phone: <b>978-692-9000</b>	Quote #: <b></b>	PO #:	Standard							
Email: <b>David.chapman@amec.com</b>	Project Name/Number: <b>Clin, Wilmngtn 610712006</b>	WQ#:	SSOW#:	Sample Date		Sample Time	Sample Type (C=Comp, G=Grab)	Sample (WATER, Solid, Oil/Tissue, Air)	Matrix	Special Instructions/Note:	
Site: <b>Clin, Wilmngtn</b>	Page: <b>2</b>	Sample Identification	Sample Date	Preservation Code:							
		72	OC-SS-514-0-C(110-xxxx)	12-4-12	12:55	C	S	ocean	3		
		72	OC-SS-515-0-C(110-xxxx)	11	13:10	11	11	11	3		
		72	OC-SS-516-0-C(110-xxxx)	11	13:30	11	11	11	3		
		72	OC-SS-521-0-C(110-xxxx)	11	14:15	11	11	11	3		
		72	DUP-L	11	/	11	11	11	3		
		72	XMS/MSD-L	11	/	11	11	11	3		
<b>Possible Hazard Identification</b>											
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological											
Deliverable Requested: I, II, III, IV. Other (specify)											
Reinstituted by: <b>David Chapman</b>	Date/Time: <b>12-4-12 / 1615</b>	Company	Received by: <b>Jeff Doh</b>	Date/Time: <b>12-4-12 / 1900</b>	Company	Date/Time: <b>12-4-12 / 1615</b>	Company				
Reinstituted by: <b>Jeff Doh</b>	Date/Time: <b>12-4-12 / 1900</b>	Company	Received by: <b>M. Kohl</b>	Date/Time: <b>12-4-12 / 1900</b>	Company	Date/Time: <b>12-4-12 / 1900</b>	Company				
Cooler Temperature(s) °C and Other Remarks: <b>[7-6-10] 725</b>											
Custody Seals Intact: <input type="checkbox"/> Custody Seal No.: <b></b> △ Yes    ▲ No											
TAL-8245-360 1111											